

Survey Questions - Post-Focus Group Session Survey

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995 unless the information collection has a currently valid OMB Control Number. The approved OMB Control Number for this information collection is 0690-0030. Without this approval, we could not conduct this post-focus group survey collection. Public reporting for this information collection is estimated to be approximately 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. All responses to this information collection are voluntary. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Nurture Nature Center at: 518 Northampton Street, Easton, PA 18042, Attn: Rachel Hogan Carr, Executive Director, rhogan@nurturenature.org.

1. Please rate your agreement with the following statements about the forum.

Please check ONE box for each statement.

	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
The information was clearly presented.		✓			
I felt comfortable voicing my opinion.		✓			
I know more about the National Weather Service (NWS) resources.		✓			
I feel I could use NWS resources to judge my risk in an extreme weather event.		✓			

2. What are the biggest barriers you face in using NWS flood forecast and warning products? Some examples to consider are lack of computer or phone, lack of internet access, language barriers, NWS products too difficult to understand, or other factors.

Limited access to our Area

3. Our goal today was to gather feedback to improve NWS flood forecast and warning tools. Beyond the questions asked today, what else would be important to know about how you gather/would use NWS information about extreme weather risks and your intended actions?

Travel Conditions

4. After attending today's session, how likely are you to:

Please check ONE box for each statement.

	Very Likely	Somewhat Likely	Neither likely nor unlikely	Somewhat Unlikely	Unlikely
Create or revise plans to deal with extreme weather events using NWS products.	✓				
Share what I learned about NWS products today with others.	✓				
Seek NWS information about extreme weather risks.	✓				
Use NWS products and information in your decision-making	✓				

5. Do you prefer text-based or graphical/visual NWS products in trying to understand your level of risk from flooding? Circle one.

Text

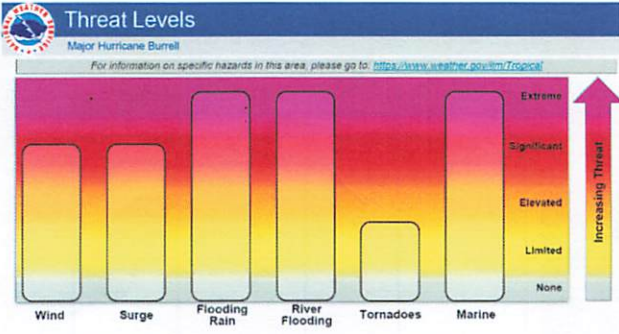
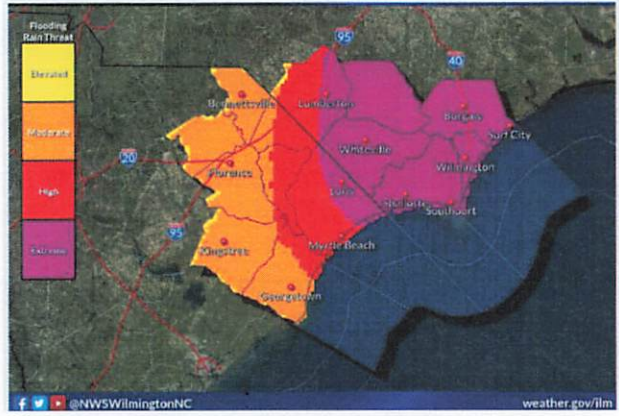
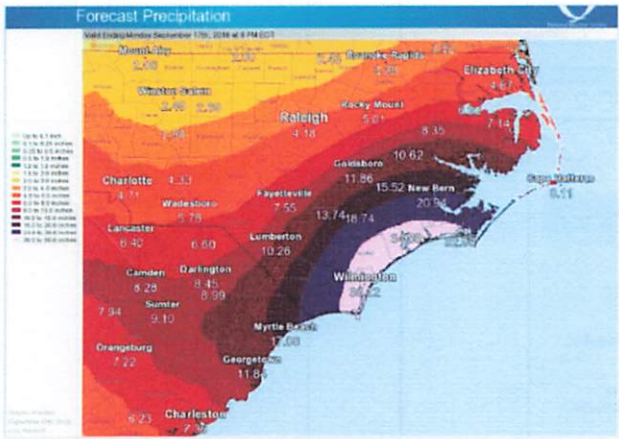
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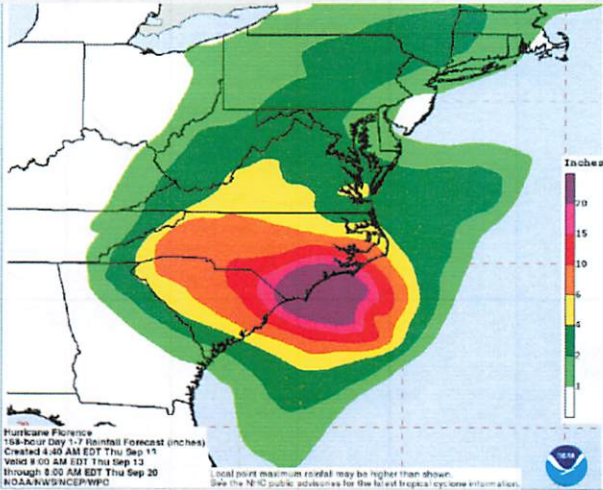
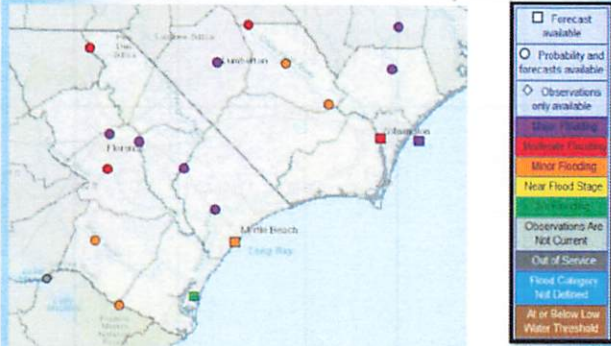
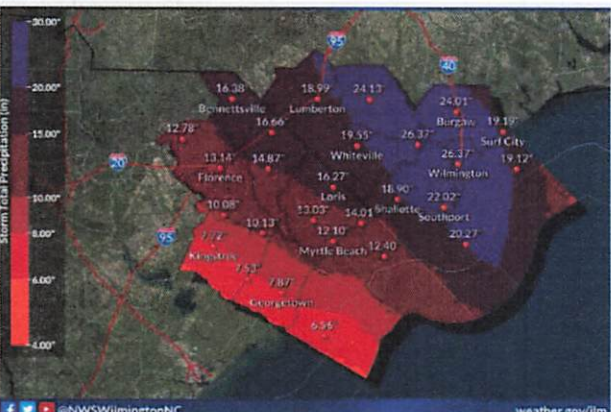
Combined text and graphics

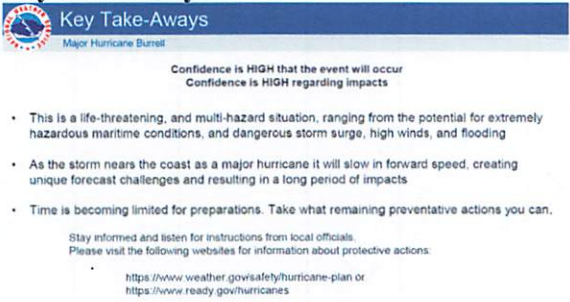
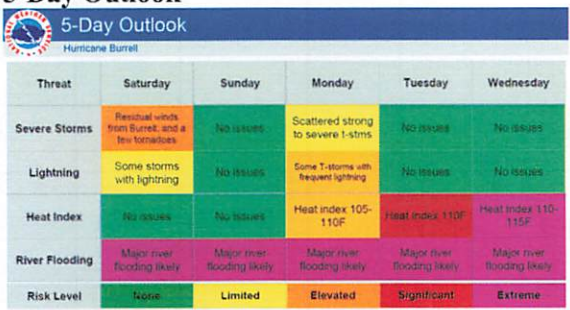
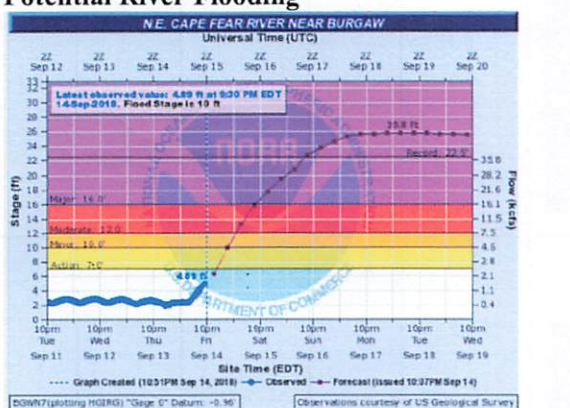

Please explain. _____

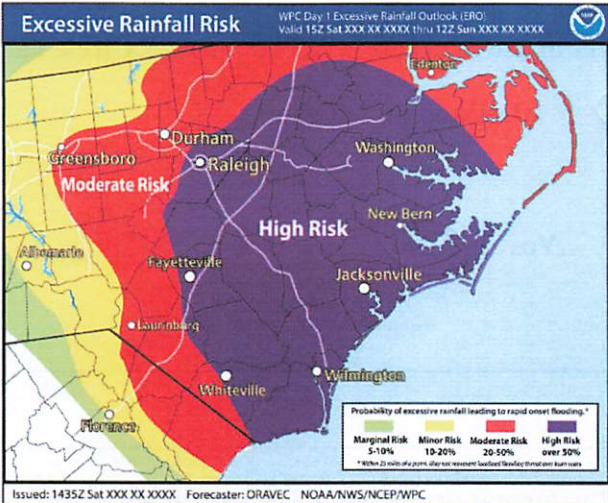
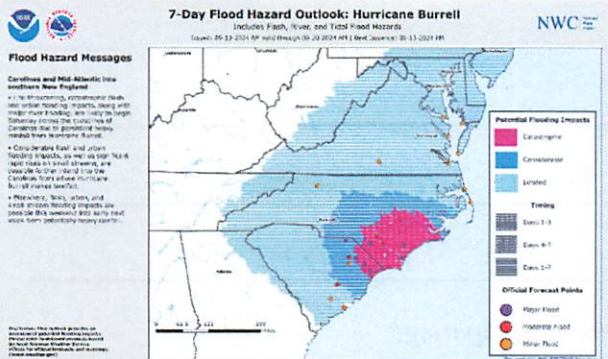
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<p>Situation Overview</p> <p>Situation Overview Major Hurricane Burrell</p> <ul style="list-style-type: none"> • Life-threatening flooding is likely given the potential for excessive rainfall. A Flash Flood Watch is now in effect. • Catastrophic river flooding will develop and persist long after the storm exits the area. • Damaging hurricane force winds are likely, especially along portions of the coast. Strong winds could also spread well inland. A Hurricane Warning remains in effect. • The time for preparations is becoming limited. Take what preventative actions you can for impending strong winds, storm surge, and flooding rain. Follow any advice issued by local officials. 				✓																									

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<h3>Threat Levels</h3>  <p>The graphic shows six hazard categories with their respective threat levels. Wind and Surge are at the 'None' level. Flooding Rain, River Flooding, and Tornadoes are at the 'Limited' level. Marine is at the 'Elevated' level. All other categories are at the 'Extreme' level.</p>					✓
<h3>Inland Flooding</h3>  <p>The map shows flooding risk levels across North Carolina. The eastern and central parts of the state, including areas around Raleigh, Charlotte, and the Research Triangle, are shaded in red (High) and purple (Extreme). The western and southern coastal areas are shaded in orange (Moderate).</p>				✓	
<h3>Forecast Precipitation</h3>  <p>The precipitation forecast map shows varying amounts of rain predicted for different locations. For example, New Bern is forecast to receive 20.58 inches, while some areas like Rocky Mount and Elizabeth City are forecast to receive 4.35 inches. Other locations include Charlotte (4.33), Raleigh (4.18), and Greenville (6.25).</p>		✓			

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<p>Expected Storm Total Rainfall</p>  <p>Hurricane Florence 168-hour Day 1-7 Rainfall Forecast (inches) Created 8:00 AM EDT Thu Sep 15 Valid 8:00 AM EDT Thu Sep 13 through 8:00 AM EDT Thu Sep 20 NOAA/NWS/NCEP/WWP</p> <p>Local point maximum rainfall may be higher than shown. See the NHC public advisories for the latest tropical cyclone information.</p>		✓			
<p>River Flooding Outlook</p>  <p>Legend: □ Forecast available ○ Probability and forecasts available ◇ Observations only available ■ Deep Flooding ■ Moderate Flooding ■ Minor Flooding ■ Near Flood Stage ■ Observations Are Not Current ■ Out of Service ■ Flood Category Not Defined ■ At or Below Low Water Threshold</p>		✓			
<p>Additional Rainfall</p>  <p>Storm total precipitation (in)</p> <p>Locations and rainfall amounts: Florence: 12.78 Lenoir: 13.14 Whiteville: 16.27 Lumberton: 16.66 Myrtle Beach: 12.40 Southport: 20.27 Raleigh: 18.99 Durham: 24.13 Charlotte: 24.01 Asheville: 19.35 Fayetteville: 26.37 Greenville: 25.37 Spartanburg: 19.19 Winston-Salem: 19.12 Hickory: 18.90 Salisbury: 22.02 Kinston: 7.72 Greenville: 7.87 Greenville: 6.56</p> <p>Legend: ■ 4.00 ■ 6.00 ■ 8.00 ■ 10.00 ■ 12.00 ■ 14.00 ■ 16.00 ■ 18.00 ■ 20.00 ■ 22.00 ■ 24.00 ■ 26.00 ■ 28.00 ■ 30.00</p> <p>@NWSWilmingtonNC weather.gov/ilm</p>		✓			

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<p>Key Take-Aways</p>  <p>Confidence is HIGH that the event will occur Confidence is HIGH regarding impacts</p> <ul style="list-style-type: none"> This is a life-threatening, and multi-hazard situation, ranging from the potential for extremely hazardous maritime conditions, and dangerous storm surge, high winds, and flooding As the storm nears the coast as a major hurricane it will slow in forward speed, creating unique forecast challenges and resulting in a long period of impacts Time is becoming limited for preparations. Take what remaining preventative actions you can. <p>Stay informed and listen for instructions from local officials. Please visit the following websites for information about protective actions:</p> <p>https://www.weather.gov/safety/hurricane-plan or https://www.ready.gov/hurricanes</p>				✓																																					
<p>5-Day Outlook</p>  <table border="1"> <thead> <tr> <th>Threat</th> <th>Saturday</th> <th>Sunday</th> <th>Monday</th> <th>Tuesday</th> <th>Wednesday</th> </tr> </thead> <tbody> <tr> <td>Severe Storms</td> <td>Residual winds from Burrell, and a few tornadoes</td> <td>No issues</td> <td>Scattered strong to severe t-stms</td> <td>No issues</td> <td>No issues</td> </tr> <tr> <td>Lightning</td> <td>Some storms with lightning</td> <td>No issues</td> <td>Some t-storms with frequent lightning</td> <td>No issues</td> <td>No issues</td> </tr> <tr> <td>Heat Index</td> <td>No issues</td> <td>No issues</td> <td>Heat index 105-110F</td> <td>Heat index 110F</td> <td>Heat index 110-115F</td> </tr> <tr> <td>River Flooding</td> <td>Major river flooding likely</td> <td>Major river flooding likely</td> <td>Major river flooding likely</td> <td>Major river flooding likely</td> <td>Major river flooding likely</td> </tr> <tr> <td>Risk Level</td> <td>None</td> <td>Limited</td> <td>Elevated</td> <td>Significant</td> <td>Extreme</td> </tr> </tbody> </table>	Threat	Saturday	Sunday	Monday	Tuesday	Wednesday	Severe Storms	Residual winds from Burrell, and a few tornadoes	No issues	Scattered strong to severe t-stms	No issues	No issues	Lightning	Some storms with lightning	No issues	Some t-storms with frequent lightning	No issues	No issues	Heat Index	No issues	No issues	Heat index 105-110F	Heat index 110F	Heat index 110-115F	River Flooding	Major river flooding likely	Major river flooding likely	Major river flooding likely	Major river flooding likely	Major river flooding likely	Risk Level	None	Limited	Elevated	Significant	Extreme					✓
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<p>Potential River Flooding</p>  <p>NE CAPE FEAR RIVER NEAR BURGAW Universal Time (UTC)</p> <p>Latest observed value: 4.89 ft at 9:00 PM EDT 14 Sep 2018. Flood Stage is 12 ft</p> <p>Flow (cfs) forecast: 35.0, 28.2, 21.6, 16.1, 11.5, 7.5, 4.5, 2.8, 1.1, 0.4</p> <p>Stage (ft) forecast: 22.8, 22.8, 22.8, 22.8, 22.8, 22.8, 22.8, 22.8, 22.8, 22.8</p> <p>Graph Created (10:51 PM Sep 14, 2018) — Observed — Forecast (Issued 10:27 PM Sep 14)</p>		✓																																							
<p>Social media</p> <p>Dangerous Rip Currents and Rough Surf Expected</p>  <p>Wilmington, NC</p> <p>Overview:</p> <ul style="list-style-type: none"> Swells from Hurricane Burrell will build today through midweek. Expect the potential for rough surf and life-threatening rip currents Tuesday through Thursday. <p>Timing: Surf conditions will be most hazardous Tuesday through Thursday.</p> <p>Hazards & Impacts: Dangerous swimming conditions are expected given the presence of strong rip currents and large breakers in the surf.</p> <p>Additional Information: If you plan on visiting the beaches, then pay attention to flags and follow the guidance of lifeguards and other local beach officials. If you are swimming, swimming in 600 yds contact a lifeguard or 911. Never enter the surf without lifeguards to assist swimmers.</p> <p>Distant Hurricanes Can Be Deadly</p> <p>Remember to stay safe and follow the guidance of lifeguards and other local beach officials. If you are swimming, swimming in 600 yds contact a lifeguard or 911. Never enter the surf without lifeguards to assist swimmers.</p>		✓																																							

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<p>Excessive Rainfall Risk</p>  <p>WPC Day 1 Excessive Rainfall Outlook (ERO) Valid 15Z Sat XXX XX XXXX thru 12Z Sun XXX XX XXXX</p> <p>Issued: 1435Z Sat XXX XX XXXX Forecaster: DRAVEC NOAA/NWS/NCEP/WPC</p>		✓			
<p>Flood Hazard Outlook</p> <p>7-Day Flood Hazard Outlook: Hurricane Burrell Includes Flood, River, and Tidal Flood Hazards</p>  <p>Flood Hazard Messages</p> <p>Catastrophic and High Risk Floods in Southeastern New England</p> <p>Due to the intensifying, catastrophic floods due to the flooding in North Carolina and major flooding in the Carolinas and Virginia from the Category 4 hurricane Burrell.</p> <p>Catastrophic flood and storm surge in North Carolina, as well as other major flooding in South Carolina, are likely to occur due to the impact of the Category 4 hurricane Burrell on the Southeastern US.</p> <p>Majority, heavy, intense, and rapid onsets leading to rapidly rising water levels and potential surge flooding.</p> <p>For more information on flood hazards, visit the National Weather Service website at www.weather.gov.</p> <p>For more information on flood hazards, visit the National Weather Service website at www.weather.gov.</p> <p>For more information on flood hazards, visit the National Weather Service website at www.weather.gov.</p> <p>For more information on flood hazards, visit the National Weather Service website at www.weather.gov.</p>			✓		

7. What changes might you recommend for any of the products shown?

Not Sure

8. Which media would you use to find NWS information about the risk of flooding near you? Please circle all that apply:

Facebook Twitter Internet Other: _____

9. Which digital platform are you most likely to use to access NWS resources? Circle one.

Smartphone Tablet Laptop Desktop Other: _____

10. Was anything in the session confusing? Yes No

If Yes, please explain:

11. What improvements could be made in the format or content of this session?

12. Additional comments:

Thank you for participating!

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Clear understanding of warning colors

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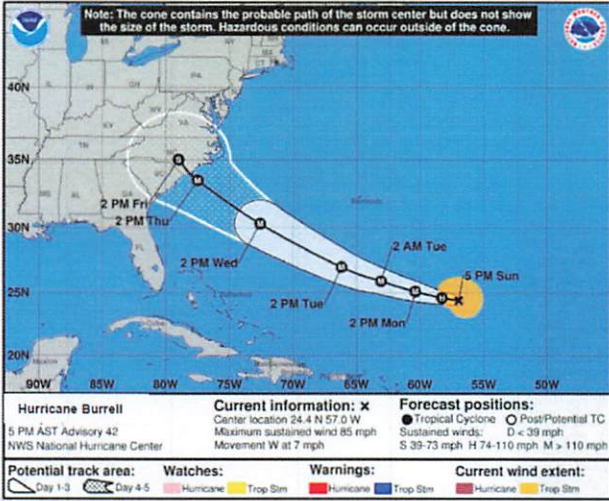

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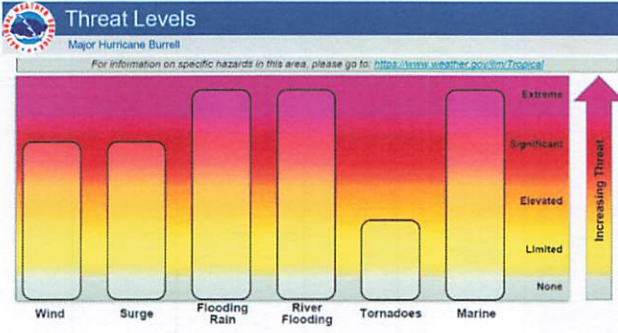
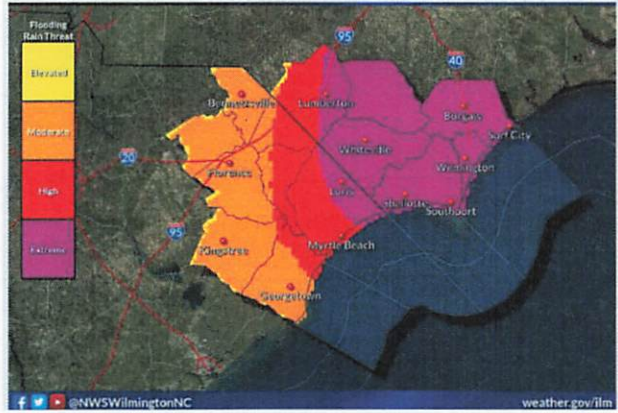
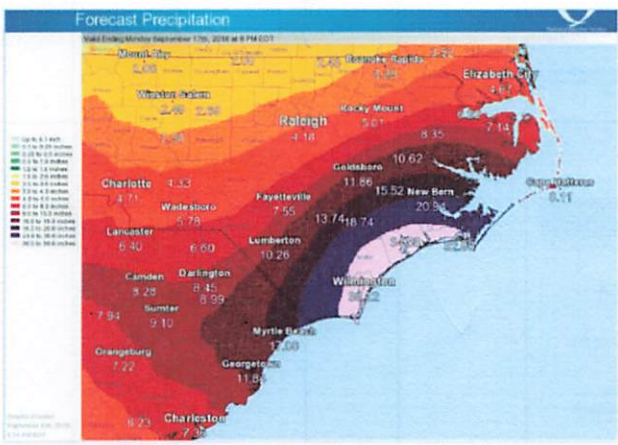
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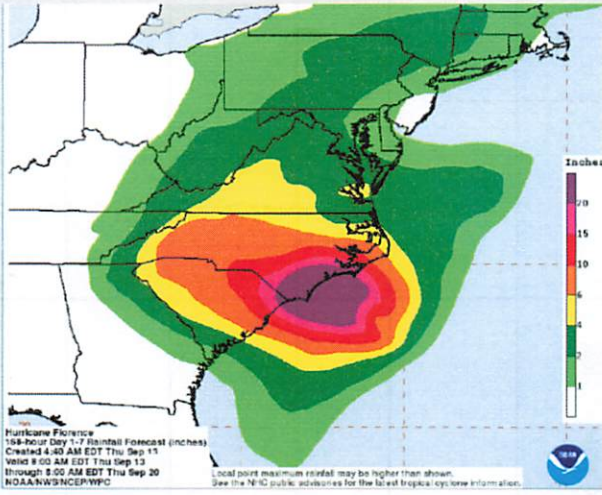

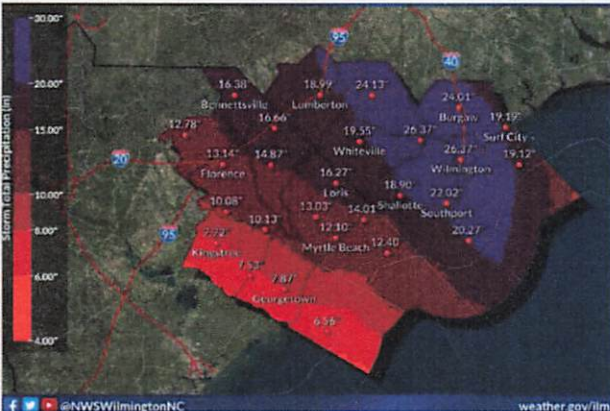
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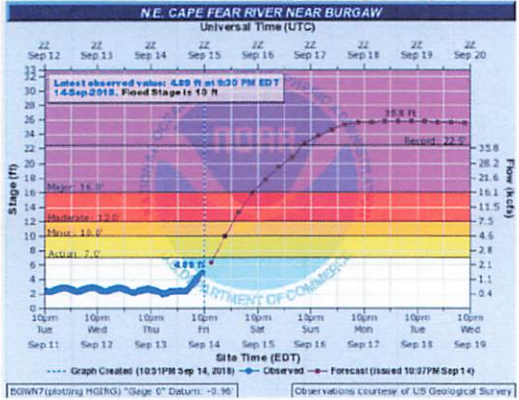
Please explain. Phone service most dependable

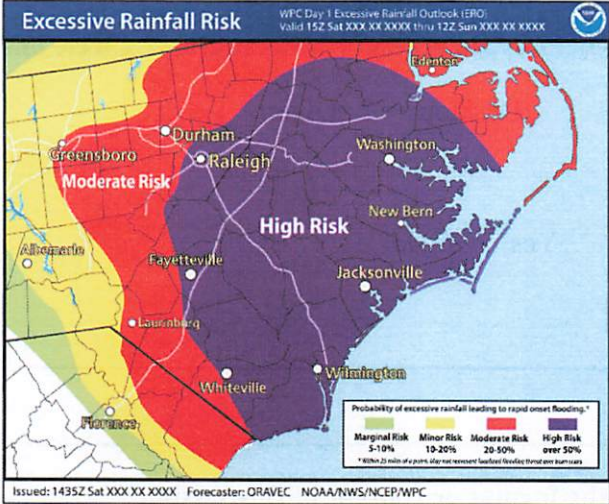
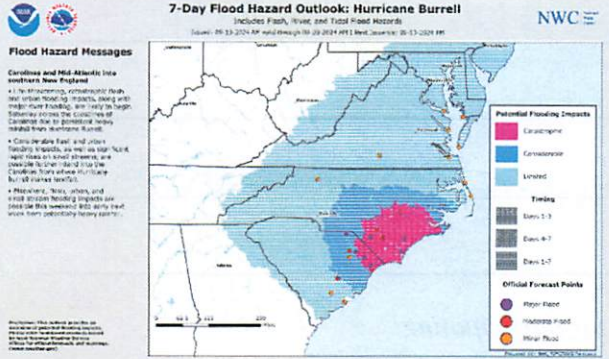
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<p>Situation Overview</p>  <p>Situation Overview Major Hurricane Burrell</p> <ul style="list-style-type: none"> Life-threatening flooding is likely given the potential for excessive rainfall. A Flash Flood Watch is now in effect. Catastrophic river flooding will develop and persist long after the storm exits the area. Damaging hurricane force winds are likely, especially along portions of the coast. Strong winds could also spread well inland. A Hurricane Warning remains in effect. The time for preparations is becoming limited. Take what preventative actions you can for impending strong winds, storm surge, and flooding rain. Follow any advice issued by local officials. 	✓																												

	Extremely useful	Very useful	Moderately useful	Slightly useful	Not at all useful
<p>Threat Levels</p> 		✓			
<p>Inland Flooding</p> 		✓			
<p>Forecast Precipitation</p> 		✓			

	Extremely useful	Very useful	Moderately useful	Slightly useful	Not at all useful
<p>Expected Storm Total Rainfall</p>  <p>Hurricane Florence 168-hour Day 1-7 Rainfall Forecast (inches) Created 4:40 AM EDT Thu Sep 15 Valid 8:00 AM EDT Thu Sep 15 through 8:00 AM EDT Thu Sep 20 NOAA/NWS/NCEP/WPC</p> <p>Local point maximum rainfall may be higher than shown. See the NHC public advisories for the latest tropical cyclone information.</p>	✓				
<p>River Flooding Outlook</p>  <p>Legend: □ Forecast available ○ Probability and forecasts available ◇ Observations only available Major Flooding Moderate Flooding Minor Flooding Near Flood Stage Observations Are Not Current Out of Service Flood Category Not Defined At or Below Low Water Threshold</p>	✓				
<p>Additional Rainfall</p>  <p>Storm total precipitation (in)</p> <p>Locations and rainfall amounts: Sprincttsville: 16.38 Lumberton: 18.99 Burgin: 24.13 Surf City: 24.01 12.78 16.66 19.55 26.37 13.14 14.87 Whiteville: 16.27 26.27 19.12 Florence: 10.08 10.13 13.03 14.01 Lenoir: 18.90 22.02 12.10 20.27 Myrtle Beach: 12.40 7.87 Georgetown: 6.56</p> <p>@NWSWilmingtonNC weather.gov/film</p>	✓				

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<p>Key Take-Aways</p>  <p>Confidence is HIGH that the event will occur Confidence is HIGH regarding impacts</p> <ul style="list-style-type: none"> This is a life-threatening, and multi-hazard situation, ranging from the potential for extremely hazardous maritime conditions, and dangerous storm surge, high winds, and flooding As the storm nears the coast as a major hurricane it will slow in forward speed, creating unique forecast challenges and resulting in a long period of impacts Time is becoming limited for preparations. Take what remaining preventative actions you can. <p>Stay informed and listen for instructions from local officials. Please visit the following websites for information about protective actions: https://www.weather.gov/safety/hurricane-plan or https://www.ready.gov/hurricanes</p>		✓																																							
<p>5-Day Outlook</p>  <table border="1"> <thead> <tr> <th>Threat</th> <th>Saturday</th> <th>Sunday</th> <th>Monday</th> <th>Tuesday</th> <th>Wednesday</th> </tr> </thead> <tbody> <tr> <td>Severe Storms</td> <td>Residual winds from Burrell, and a few tornadoes</td> <td>No issues</td> <td>Scattered strong to severe t-storms</td> <td>No issues</td> <td>No issues</td> </tr> <tr> <td>Lightning</td> <td>Some storms with lightning</td> <td>No issues</td> <td>Some T-storms with frequent lightning</td> <td>No issues</td> <td>No issues</td> </tr> <tr> <td>Heat Index</td> <td>No issues</td> <td>No issues</td> <td>Heat index 105-110F</td> <td>Heat index 110F</td> <td>Heat index 110-115F</td> </tr> <tr> <td>River Flooding</td> <td>Major river flooding likely</td> <td>Major river flooding likely</td> <td>Major river flooding likely</td> <td>Major river flooding likely</td> <td>Major river flooding likely</td> </tr> <tr> <td>Risk Level</td> <td>None</td> <td>Limited</td> <td>Elevated</td> <td>Significant</td> <td>Extreme</td> </tr> </tbody> </table>	Threat	Saturday	Sunday	Monday	Tuesday	Wednesday	Severe Storms	Residual winds from Burrell, and a few tornadoes	No issues	Scattered strong to severe t-storms	No issues	No issues	Lightning	Some storms with lightning	No issues	Some T-storms with frequent lightning	No issues	No issues	Heat Index	No issues	No issues	Heat index 105-110F	Heat index 110F	Heat index 110-115F	River Flooding	Major river flooding likely	Major river flooding likely	Major river flooding likely	Major river flooding likely	Major river flooding likely	Risk Level	None	Limited	Elevated	Significant	Extreme		✓			
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<p>Potential River Flooding</p>  <p>NE CAPE FEAR RIVER NEAR BURGAW Universal Time (UTC)</p> <p>Stage (ft) vs Time (UTC)</p> <p>Latest observed value: 4.89 ft on 8:00 PM EDT 14 Sep 2018. Flood Stage is 10 ft</p> <p>Record: 22.3 ft</p> <p>Major: 14.0 ft</p> <p>Intermediate: 12.0 ft</p> <p>Minor: 10.0 ft</p> <p>Advis: 7.0 ft</p> <p>Graph Created (10:51 PM Sep 14, 2018) - Observed - Forecast (Issued 10:37 PM Sep 14)</p>		✓																																							
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7. What changes might you recommend for any of the products shown?

USE of Red as the color for highest risk

8. Which media would you use to find NWS information about the risk of flooding near you? Please circle all that apply:

Facebook Twitter Internet Other: _____

9. Which digital platform are you most likely to use to access NWS resources? Circle one.

Smartphone : Tablet Laptop Desktop Other: _____

10. Was anything in the session confusing? Yes No

If Yes, please explain:

11. What improvements could be made in the format or content of this session?

None noticed

12. Additional comments: *Good information for my community*

Thank you for participating!

Survey Questions - Post-Focus Group Session Survey

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1. Please rate your agreement with the following statements about the forum.

Please check ONE box for each statement.

	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
The information was clearly presented.		✓			
I felt comfortable voicing my opinion.		✓			
I know more about the National Weather Service (NWS) resources.		✓			
I feel I could use NWS resources to judge my risk in an extreme weather event.		✓			

2. What are the biggest barriers you face in using NWS flood forecast and warning products? Some examples to consider are lack of computer or phone, lack of internet access, language barriers, NWS products too difficult to understand, or other factors.

Access to internet

3. Our goal today was to gather feedback to improve NWS flood forecast and warning tools. Beyond the questions asked today, what else would be important to know about how you gather/would use NWS information about extreme weather risks and your intended actions?

I would share.

4. After attending today's session, how likely are you to:

Please check ONE box for each statement.

	Very Likely	Somewhat Likely	Neither likely nor unlikely	Somewhat Unlikely	Unlikely
Create or revise plans to deal with extreme weather events using NWS products.		✓			
Share what I learned about NWS products today with others.			✓		
Seek NWS information about extreme weather risks.		✓			
Use NWS products and information in your decision-making			✓		

5. Do you prefer text-based or graphical/visual NWS products in trying to understand your level of risk from flooding? Circle one.

Text

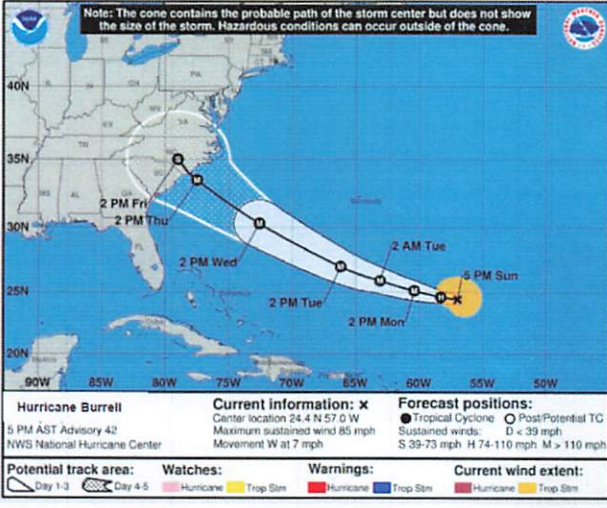















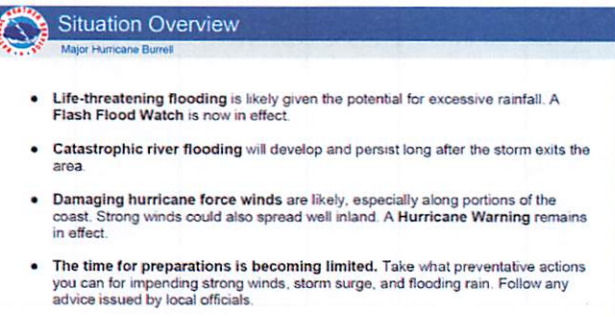
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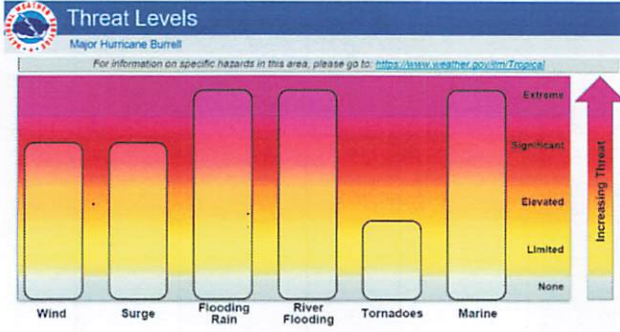
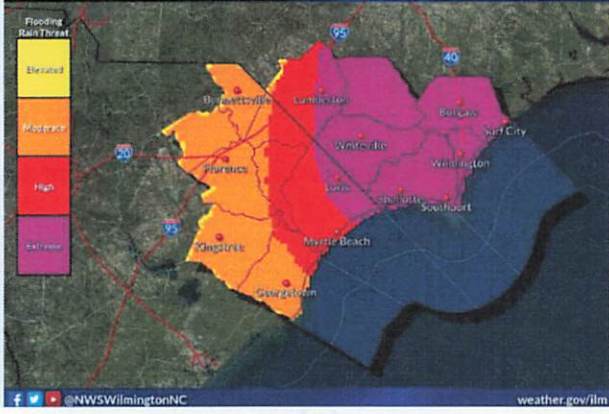
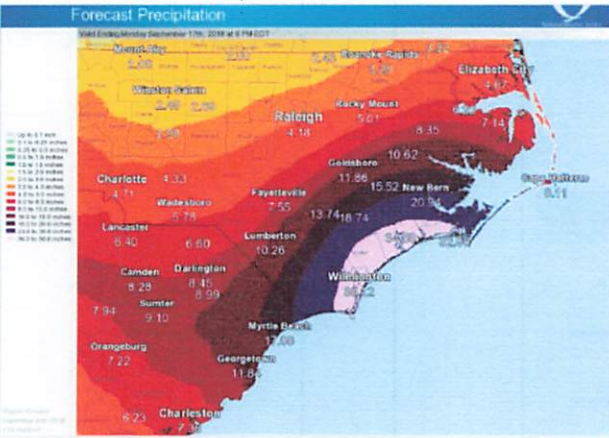
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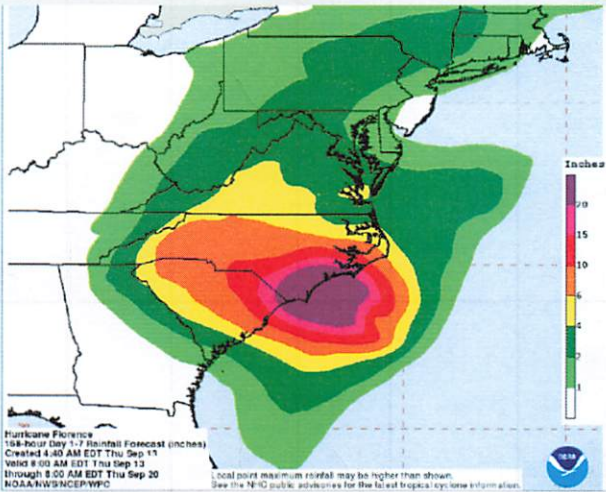
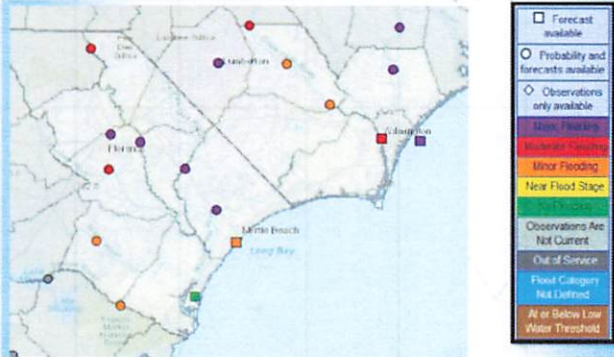
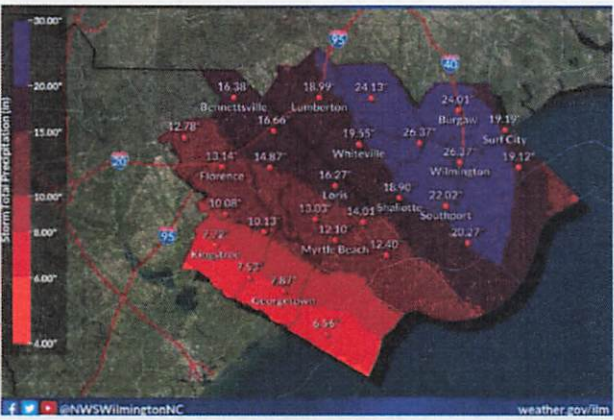
Please explain.

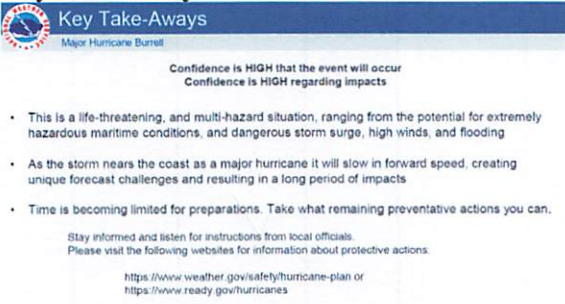
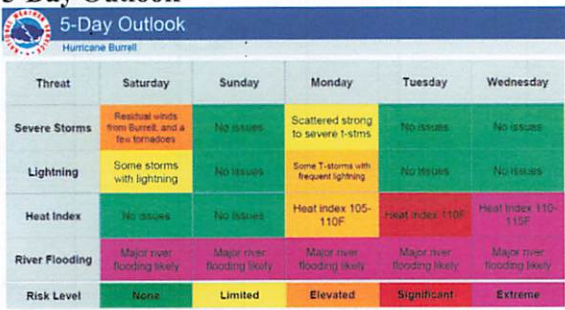
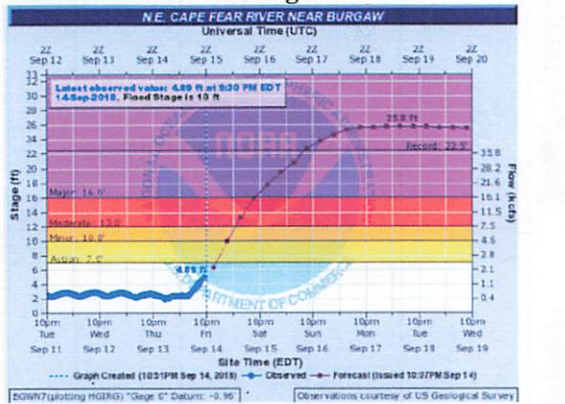

Gives better context

6. Please rate the weather products discussed today based on their usefulness to you in assessing your flood situation.

	Extremely useful	Very useful	Moderately useful	Slightly useful	Not at all useful																								
<p>Hurricane Cone</p> 	✓																												
<p>Hazards and Impacts Table</p> <table border="1"> <thead> <tr> <th>Hazard</th> <th>Impacts</th> <th>Location</th> <th>Timing</th> </tr> </thead> <tbody> <tr> <td> Wind</td> <td>Potentially dangerous wind impacts are possible, but it is too early to tell which areas will receive the greatest impacts.</td> <td>All of southeast NC</td> <td>Thursday into Friday</td> </tr> <tr> <td> Storm Surge & Inundation</td> <td>Too much uncertainty at this time, however potentially dangerous impacts are possible if the storm continues to track toward the Carolinas.</td> <td>All coastal areas and tidally connected creeks, bays, and waterways</td> <td>Thursday into Friday</td> </tr> <tr> <td> Flooding Rain</td> <td>Widespread flooding in/near low-lying and poor drainage areas is possible, but the amounts and distribution of rainfall is highly track dependent.</td> <td>All of southeast NC</td> <td>Thursday into Saturday</td> </tr> <tr> <td> Tornado</td> <td>A few tornadoes are possible, but it is too early to tell with certainty.</td> <td>All of southeast NC</td> <td>Thursday into Friday</td> </tr> <tr> <td> Marine</td> <td>High likelihood of dangerous maritime and surf conditions developing.</td> <td>Surf zone and adjacent Atlantic waters</td> <td>Increasing during the week, but especially Wednesday through Saturday.</td> </tr> </tbody> </table>	Hazard	Impacts	Location	Timing	 Wind	Potentially dangerous wind impacts are possible, but it is too early to tell which areas will receive the greatest impacts.	All of southeast NC	Thursday into Friday	 Storm Surge & Inundation	Too much uncertainty at this time, however potentially dangerous impacts are possible if the storm continues to track toward the Carolinas.	All coastal areas and tidally connected creeks, bays, and waterways	Thursday into Friday	 Flooding Rain	Widespread flooding in/near low-lying and poor drainage areas is possible, but the amounts and distribution of rainfall is highly track dependent.	All of southeast NC	Thursday into Saturday	 Tornado	A few tornadoes are possible, but it is too early to tell with certainty.	All of southeast NC	Thursday into Friday	 Marine	High likelihood of dangerous maritime and surf conditions developing.	Surf zone and adjacent Atlantic waters	Increasing during the week, but especially Wednesday through Saturday.		✓			
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Threat Levels  <p>Threat Levels Major Hurricane Burrell For information on specific hazards in this area, please go to: https://www.weather.gov/ilm/Tropical</p> <p>Extreme Significant Elevated Limited None</p> <p>Increasing Threat</p> <p>Wind Surge Flooding Rain River Flooding Tornadoes Marine</p>			✓		
Inland Flooding  <p>Flooding Rain Threat</p> <p>Elevated Moderate High Extreme</p> <p>Charlotte, Raleigh, Durham, Fayetteville, Myrtle Beach, etc.</p> <p>@NWSWilmingtonNC weather.gov/ilm</p>		✓			
Forecast Precipitation  <p>Forecast Precipitation</p> <p>Charlotte 4.33, Raleigh 4.14, Durham 5.01, Fayetteville 7.55, Myrtle Beach 7.00, etc.</p> <p>Legend: 0.00 to 15.00 inches</p>		✓			

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<p>Flood Hazard Outlook</p> <p>7-Day Flood Hazard Outlook: Hurricane Burrell Includes Fresh, River, and Tidal Flood Hazards</p> <p>Issued: 09:53:20Z Sat 09/09/2024 (UTC) Next Sources: 06:13:00Z Sat</p> <p>Flood Hazard Messages</p> <p>Carolina and Mid-Atlantic Area southwest from Florida</p> <ul style="list-style-type: none"> • Heavily saturated, mountainous terrain over the Carolinas, along with major river flooding, may cause high Suburban areas the likelihood of collapse due to structural failure caused from Hurricane Burrell. • Considerable flood and other flooding impacts, as well as high tide impacts on land, are expected to occur along the Carolina coast and inland areas. • Residents in low-lying areas and flood-prone areas should be advised to evacuate and seek high ground before heavy rains. <p>Potential Flooding Impacts</p> <ul style="list-style-type: none"> Extreme Catastrophic Lowest <p>Timing</p> <ul style="list-style-type: none"> Days 1-1 Days 6-7 Days 1-7 <p>Official Forecast Points</p> <ul style="list-style-type: none"> River Flood Hurricane Flood Minor Flood 		✓			

7. What changes might you recommend for any of the products shown?

None

8. Which media would you use to find NWS information about the risk of flooding near you? Please circle all that apply:

Facebook Twitter Internet Other: _____

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10. Was anything in the session confusing? Yes No

If Yes, please explain:

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None

12. Additional comments:

None

Thank you for participating!

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	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
The information was clearly presented.		✓			
I felt comfortable voicing my opinion.	✓				
I know more about the National Weather Service (NWS) resources.	✓				
I feel I could use NWS resources to judge my risk in an extreme weather event.	✓				

2. What are the biggest barriers you face in using NWS flood forecast and warning products? Some examples to consider are lack of computer or phone, lack of internet access, language barriers, NWS products too difficult to understand, or other factors.

I don't have any

3. Our goal today was to gather feedback to improve NWS flood forecast and warning tools. Beyond the questions asked today, what else would be important to know about how you gather/would use NWS information about extreme weather risks and your intended actions?

None

4. After attending today's session, how likely are you to:

Please check ONE box for each statement.

	Very Likely	Somewhat Likely	Neither likely nor unlikely	Somewhat Unlikely	Unlikely
Create or revise plans to deal with extreme weather events using NWS products.		✓			
Share what I learned about NWS products today with others.	✓				
Seek NWS information about extreme weather risks.	✓				
Use NWS products and information in your decision-making	✓				

5. Do you prefer text-based or graphical/visual NWS products in trying to understand your level of risk from flooding? Circle one.

Text

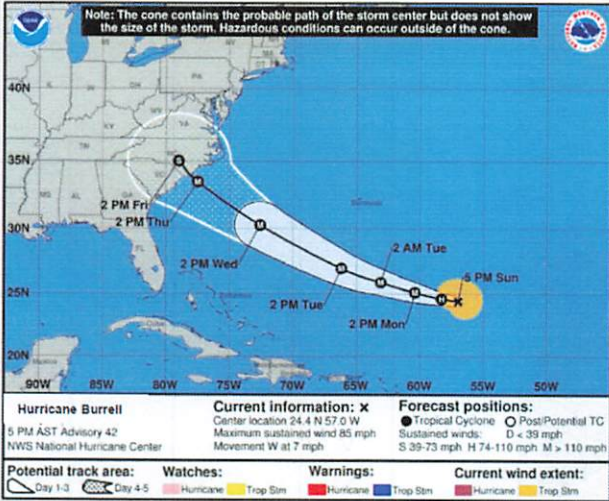

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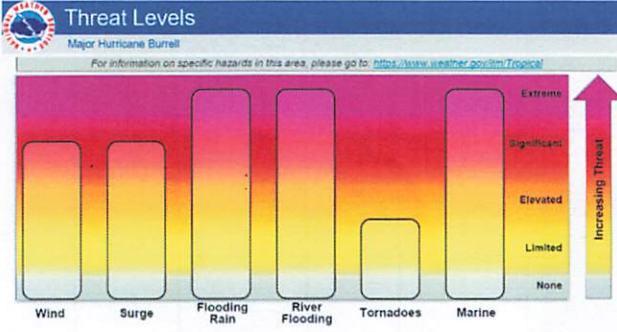
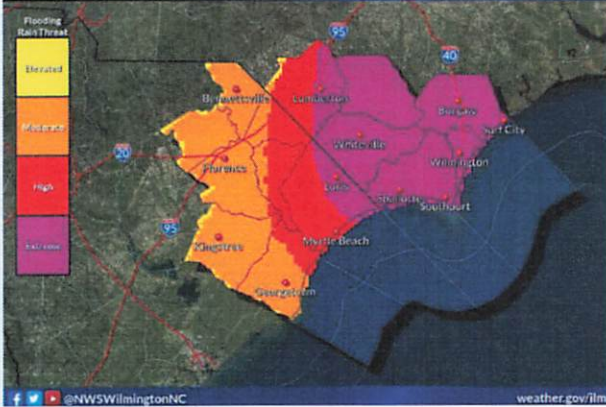
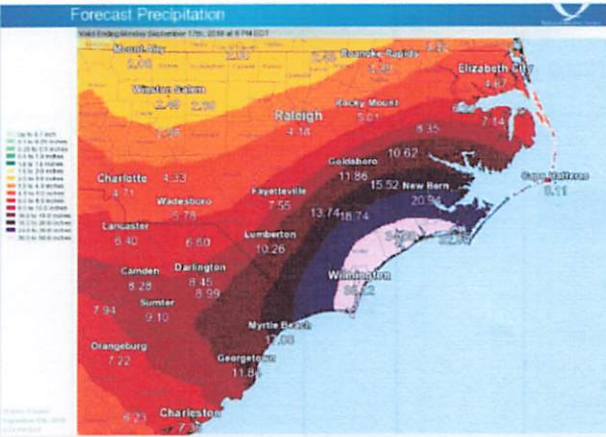
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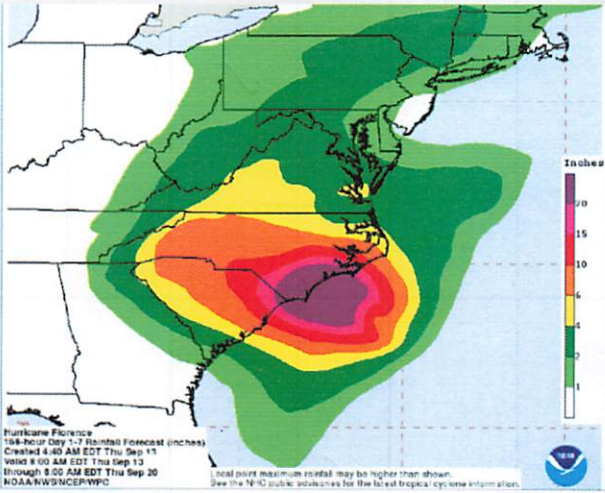
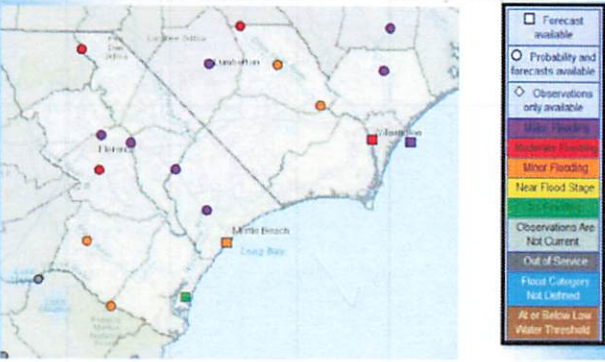
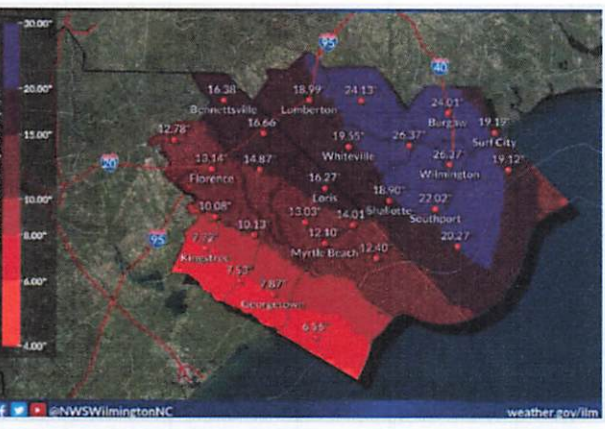
Please explain.

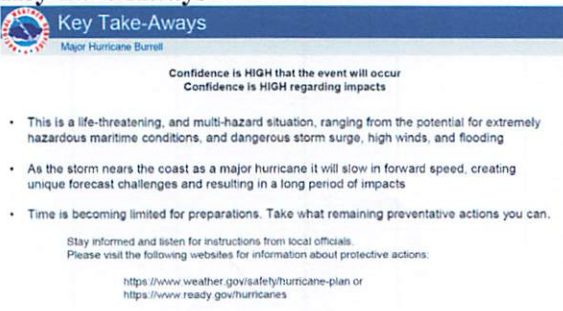
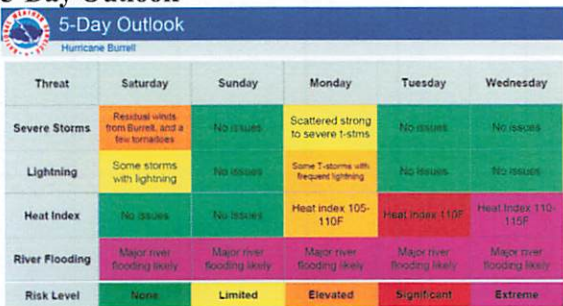
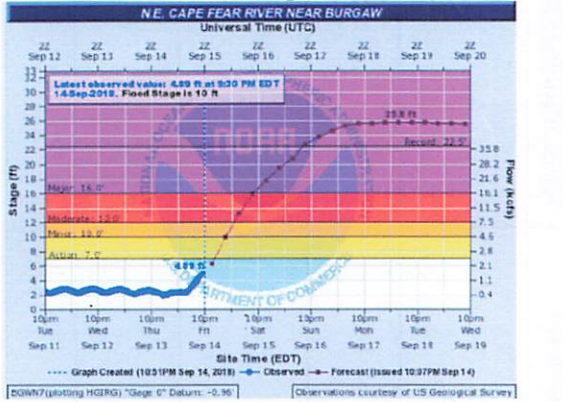
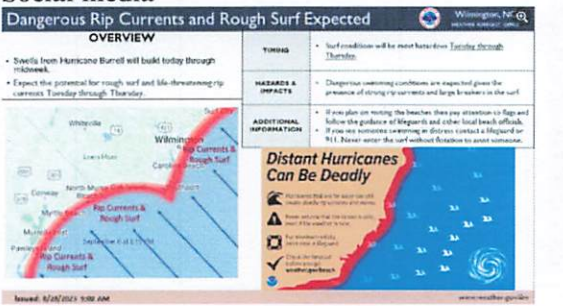
I like cobrest coded info

6. Please rate the weather products discussed today based on their usefulness to you in assessing your flood situation.

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	Extremely useful	Very useful	Moderately useful	Slightly useful	Not at all useful
<p>Threat Levels</p> 			✓		
<p>Inland Flooding</p> 		✓			
<p>Forecast Precipitation</p> 		✓			

	Extremely useful	Very useful	Moderately useful	Slightly useful	Not at all useful
<p>Expected Storm Total Rainfall</p>  <p> <small> Hurricane Florence 108-hour Day 1-7 Rainfall Forecast (inches) Created 8:40 AM EDT Thu Sep 11 Valid 8:00 AM EDT Thu Sep 12 through 8:00 AM EDT Thu Sep 20 NOAA/NWS/NCEP/WPC Local point maximum rainfall may be higher than shown. See the NHC public advisories for the latest tropical cyclone information. </small> </p>			✓		
<p>River Flooding Outlook</p> 	✓				
<p>Additional Rainfall</p>  <p> <small> @NWSWilmingtonNC weather.gov/im </small> </p>	✓				

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<h3>Key Take-Aways</h3>  <p>Key Take-Aways Major Hurricane Burrell</p> <p>Confidence is HIGH that the event will occur Confidence is HIGH regarding impacts</p> <ul style="list-style-type: none"> This is a life-threatening, and multi-hazard situation, ranging from the potential for extremely hazardous maritime conditions, and dangerous storm surge, high winds, and flooding As the storm nears the coast as a major hurricane it will slow in forward speed, creating unique forecast challenges and resulting in a long period of impacts Time is becoming limited for preparations. Take what remaining preventative actions you can. <p>Stay informed and listen for instructions from local officials. Please visit the following websites for information about protective actions: https://www.weather.gov/safety/hurricane-plan or https://www.ready.gov/hurricanes</p>			✓																																						
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<h3>Potential River Flooding</h3>  <p>N.E. CAPE FEAR RIVER NEAR BURGAW Universal Time (UTC)</p> <p>Latest observed value: 4.89 ft at 5:50 PM EDT 14 Sep 2018. Flood Stage is 12 ft</p> <p>Graph showing Stage (ft) vs. Site Time (EDT) from Sep 11 to Sep 20. Forecast shows a rise to approximately 25 ft by Sep 18.</p>		✓																																							
<h3>Social media</h3>  <p>Dangerous Rip Currents and Rough Surf Expected Wilmington, NC</p> <p>OVERVIEW</p> <ul style="list-style-type: none"> Swell from Hurricane Burrell will build today through tomorrow. Expect the potential for rough surf and life-threatening rip currents Tuesday through Thursday. <p>HAZARDS & IMPACTS</p> <ul style="list-style-type: none"> Dangerous swimming conditions are expected given the presence of strong rip currents and large breakers in the surf. <p>ADDITIONAL INFORMATION</p> <ul style="list-style-type: none"> If you plan on visiting the beaches, then pay attention to flags and follow the guidance of lifeguards and other local beach officials. If you are someone swimming in distant coastal waters, please contact a lifeguard or 911. Never enter the surf without lifeguards to assist someone. <p>Distant Hurricanes Can Be Deadly</p> <p>Beachgoers should be aware of all weather conditions and follow the guidance of lifeguards and other local beach officials. If you are someone swimming in distant coastal waters, please contact a lifeguard or 911. Never enter the surf without lifeguards to assist someone.</p>		✓																																							

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<p>Excessive Rainfall Risk</p>			✓		
<p>Flood Hazard Outlook</p>			✓		

7. What changes might you recommend for any of the products shown?

wording when describing some of the hazards and risks

8. Which media would you use to find NWS information about the risk of flooding near you? Please circle all that apply:

Facebook Twitter Internet Other: _____

9. Which digital platform are you most likely to use to access NWS resources? Circle one.

Smartphone Tablet Laptop Desktop Other: _____

10. Was anything in the session confusing? Yes No

If Yes, please explain:

11. What improvements could be made in the format or content of this session?

Maybe a screen that shows landscape version better

12. Additional comments:

Very helpful & informative

Thank you for participating!

Survey Questions - Post-Focus Group Session Survey

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995 unless the information collection has a currently valid OMB Control Number. The approved OMB Control Number for this information collection is 0690-0030. Without this approval, we could not conduct this post-focus group survey collection. Public reporting for this information collection is estimated to be approximately 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. All responses to this information collection are voluntary. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Nurture Nature Center at: 518 Northampton Street, Easton, PA 18042, Attn: Rachel Hogan Carr, Executive Director, rhogan@nurturenature.org.

1. Please rate your agreement with the following statements about the forum.

Please check ONE box for each statement.

	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
The information was clearly presented.	✓				
I felt comfortable voicing my opinion.	✓				
I know more about the National Weather Service (NWS) resources.	✓				
I feel I could use NWS resources to judge my risk in an extreme weather event.		✓			

2. What are the biggest barriers you face in using NWS flood forecast and warning products? Some examples to consider are lack of computer or phone, lack of internet access, language barriers, NWS products too difficult to understand, or other factors.

Making sure the language barriers are clear to everyone.

3. Our goal today was to gather feedback to improve NWS flood forecast and warning tools. Beyond the questions asked today, what else would be important to know about how you gather/would use NWS information about extreme weather risks and your intended actions?

Know knowing how and where the storm will go and
affect the surrounding areas.

4. After attending today's session, how likely are you to:

Please check ONE box for each statement.

	Very Likely	Somewhat Likely	Neither likely nor unlikely	Somewhat Unlikely	Unlikely
Create or revise plans to deal with extreme weather events using NWS products.		<input checked="" type="checkbox"/>			
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5. Do you prefer text-based or graphical/visual NWS products in trying to understand your level of risk from flooding? Circle one.

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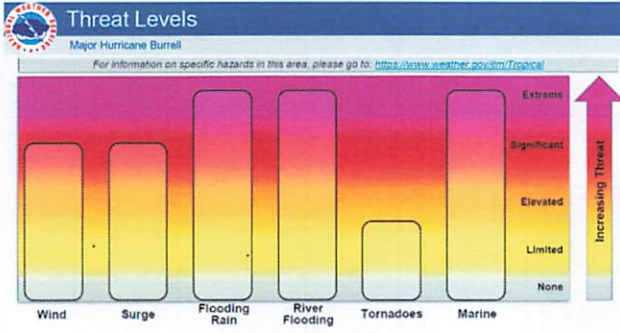
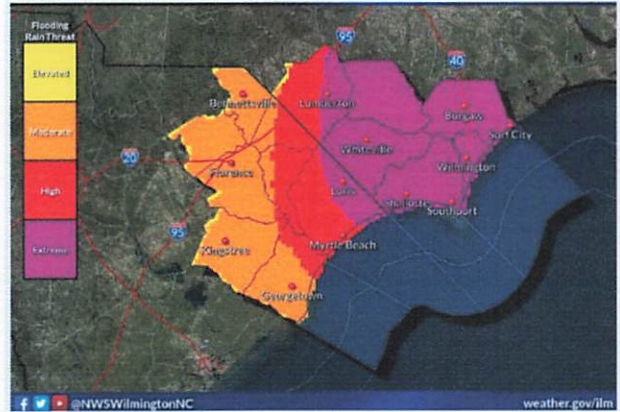
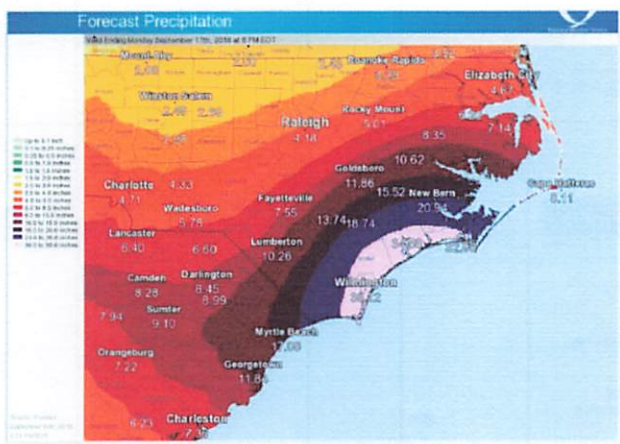
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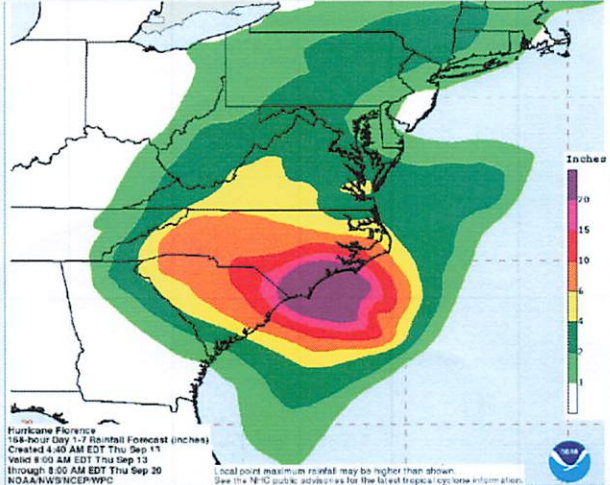
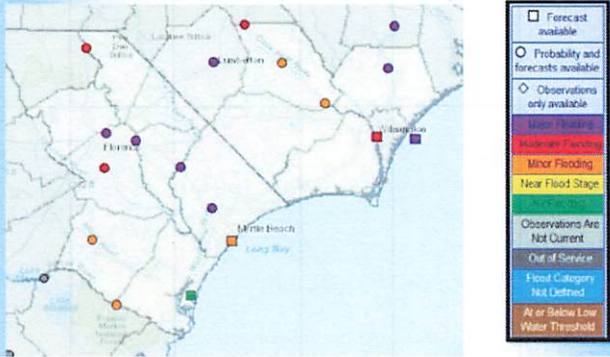
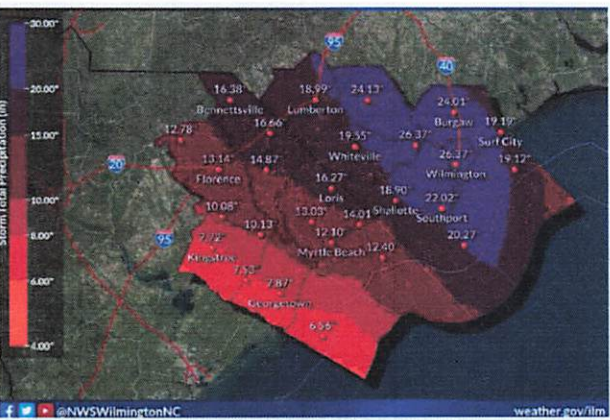
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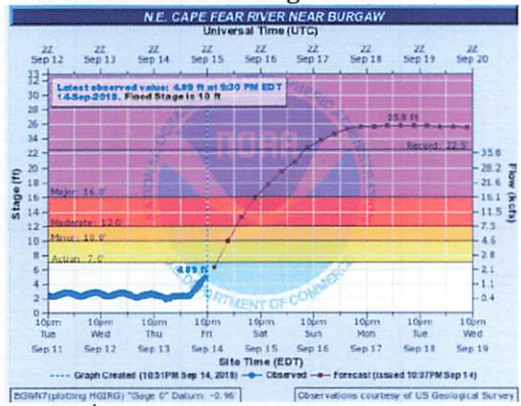

Please explain. Using both helps make sure more people can understand.

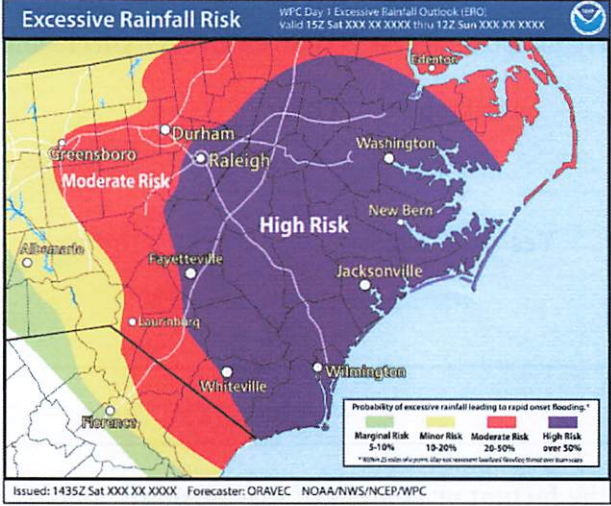
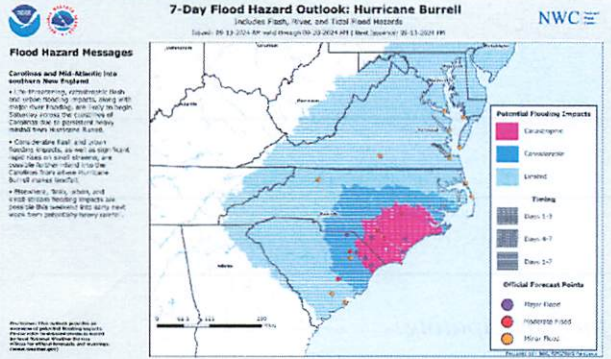
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Threat Levels  <p>The graphic shows threat levels for various hazards. A vertical color scale on the right indicates increasing threat from yellow (None) to red (Extreme). The hazards are: Wind (Limited), Surge (Limited), Flooding Rain (Elevated), River Flooding (Elevated), Tornadoes (None), and Marine (Elevated).</p>			✓		
Inland Flooding  <p>The map shows inland flooding threat levels. A legend indicates: Elevated (Yellow), Moderate (Orange), High (Red), and Extreme (Purple). Major cities like Charlotte, Raleigh, and Atlanta are labeled.</p>		✓			
Forecast Precipitation  <p>The forecast precipitation map shows rainfall amounts across the Southeastern US. A legend on the left indicates rainfall ranges from 0.0 to 16.0 inches. Major cities and their forecasted rainfall are: Charlotte (4.33), Wadesboro (5.75), Lancaster (6.45), Camden (8.28), Sumter (9.10), Orangeburg (7.22), Charleston (6.23), Raleigh (4.16), Fayetteville (7.55), Lumberton (10.26), Myrtle Beach (7.00), Greenville (11.85), Rocky Mount (3.01), Goldsboro (10.62), New Bern (20.94), Elizabeth (6.67), and Wilmington (8.54).</p>		✓			

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<p>River Flooding Outlook</p> 		✓			
<p>Additional Rainfall</p>  <p>Storm total precipitation (in)</p> <p>Locations and values: Bennettsville: 16.38 Lumberton: 18.99 Burgin: 24.01 Surf City: 19.49 Florence: 12.78 Whiteville: 13.14 Loris: 16.27 Southport: 20.27 Myrtle Beach: 12.40 Georgetown: 7.87 Florence: 13.14 Florence: 14.87 Florence: 10.08 Florence: 7.79 Florence: 19.13 Florence: 13.05 Florence: 14.01 Florence: 12.10 Florence: 18.90 Florence: 22.02 Florence: 20.27 Florence: 16.66 Florence: 19.35 Florence: 26.37 Florence: 26.37 Florence: 19.12</p> <p>@NWSWilmingtonNC weather now/tlm</p>		✓			

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<h3>Key Take-Aways</h3>  <p>Confidence is HIGH that the event will occur Confidence is HIGH regarding impacts</p> <ul style="list-style-type: none"> This is a life-threatening, and multi-hazard situation, ranging from the potential for extremely hazardous maritime conditions, and dangerous storm surge, high winds, and flooding As the storm nears the coast as a major hurricane it will slow in forward speed, creating unique forecast challenges and resulting in a long period of impacts Time is becoming limited for preparations. Take what remaining preventative actions you can. <p>Stay informed and listen for instructions from local officials. Please visit the following websites for information about protective actions</p> <p>https://www.weather.gov/safety/hurricane-plan or https://www.ready.gov/hurricanes</p>			✓																																						
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<h3>Potential River Flooding</h3>  <p>N.E. CAPE FEAR RIVER NEAR BURGAW Universal Time (UTC)</p> <p>Graph showing Stage (ft) vs. Time (UTC) from Sep 12 to Sep 20. The graph includes observed data and a forecast. Key features include:</p> <ul style="list-style-type: none"> Latest observed value: 4.89 ft at 5:00 PM EDT 14 Sep 2018. Flood Stage is 10 ft. Forecast: 22.3 ft. Major: 14.0 ft Moderate: 12.0 ft Minor: 10.0 ft Action: 7.0 ft <p>Graph Created (10:31 PM Sep 14, 2018) Observed Forecast (Issued 10:37 PM Sep 14)</p>			✓																																						
<h3>Social media</h3> <h4>Dangerous Rip Currents and Rough Surf Expected</h4>  <p>OVERVIEW</p> <ul style="list-style-type: none"> Swells from Hurricane Burrell will bank today through Wednesday. Expect the potential for rough surf and life-threatening rip currents Tuesday through Thursday. <p>HAZARDS & IMPACTS</p> <ul style="list-style-type: none"> Dangerous swimming conditions are expected given the presence of strong rip currents and large breakers in the surf. <p>ADDITIONAL INFORMATION</p> <ul style="list-style-type: none"> If you plan on visiting the beaches then pay attention to flags and follow the guidance of lifeguards and other local beach officials. If you are someone swimming in distress contact a lifeguard or 911. Never enter the surf without lifeguards to assist you. <p>Distant Hurricanes Can Be Deadly</p> <p>Check the forecast at www.weather.gov</p>			✓																																						

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<p>Excessive Rainfall Risk</p>  <p>WPC Day 3 Excessive Rainfall Outlook (ERO) valid 15Z Sat XXX XX XXXX thru 12Z Sun XXX XX XXXX</p> <p>Issued: 1435Z Sat XXX XX XXXX Forecaster: ORAVEC NOAA/NWS/NCEP/WPC</p>	✓				
<p>Flood Hazard Outlook</p>  <p>7-Day Flood Hazard Outlook: Hurricane Burrell Includes Flood, River, and Tidal Flood Hazards</p> <p>Flood Hazard Messages</p> <p>Carroll and Mid-Atlantic into Southeastern New England</p> <p>Considerable flood and storm surge impacts are expected as well as high surf and rip tides on small sailing and power boats. Other inland areas of concern are the Carolina and Virginia Piedmont. Burrell may affect parts of the Southeastern US.</p> <p>Official Forecast Points</p> <p>High Flood Moderate Flood Minor Flood</p> <p>Issued: 00:00Z Sat XXX XX XXXX NWS Forecast Office</p>	✓				

7. What changes might you recommend for any of the products shown?

Make sure everything is bold and simplified, also having better color scheme.

8. Which media would you use to find NWS information about the risk of flooding near you? Please circle all that apply:

Facebook

Twitter

Internet

Other: _____

9. Which digital platform are you most likely to use to access NWS resources? Circle one.

Smartphone

Tablet

Laptop

Desktop

Other: _____

10. Was anything in the session confusing? Yes No

If Yes, please explain:

11. What improvements could be made in the format or content of this session?

Nothing, it was very well put together

12. Additional comments:

Thank you for participating!

Survey Questions - Post-Focus Group Session Survey

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995 unless the information collection has a currently valid OMB Control Number. The approved OMB Control Number for this information collection is 0690-0030. Without this approval, we could not conduct this post-focus group survey collection. Public reporting for this information collection is estimated to be approximately 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. All responses to this information collection are voluntary. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Nurture Nature Center at: 518 Northampton Street, Easton, PA 18042, Attn: Rachel Hogan Carr, Executive Director, rhogan@nurturenature.org.

1. Please rate your agreement with the following statements about the forum.

Please check ONE box for each statement.

	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
The information was clearly presented.		✓			
I felt comfortable voicing my opinion.	✓				
I know more about the National Weather Service (NWS) resources.		✓			
I feel I could use NWS resources to judge my risk in an extreme weather event.		✓			

2. What are the biggest barriers you face in using NWS flood forecast and warning products? Some examples to consider are lack of computer or phone, lack of internet access, language barriers, NWS products too difficult to understand, or other factors.

3. Our goal today was to gather feedback to improve NWS flood forecast and warning tools. Beyond the questions asked today, what else would be important to know about how you gather/would use NWS information about extreme weather risks and your intended actions?

Good information, well received

4. After attending today’s session, how likely are you to:

Please check ONE box for each statement.

	Very Likely	Somewhat Likely	Neither likely nor unlikely	Somewhat Unlikely	Unlikely
Create or revise plans to deal with extreme weather events using NWS products.	✓				
Share what I learned about NWS products today with others.	✓				
Seek NWS information about extreme weather risks.	✓				
Use NWS products and information in your decision-making	✓				

5. Do you prefer text-based or graphical/visual NWS products in trying to understand your level of risk from flooding? Circle one.

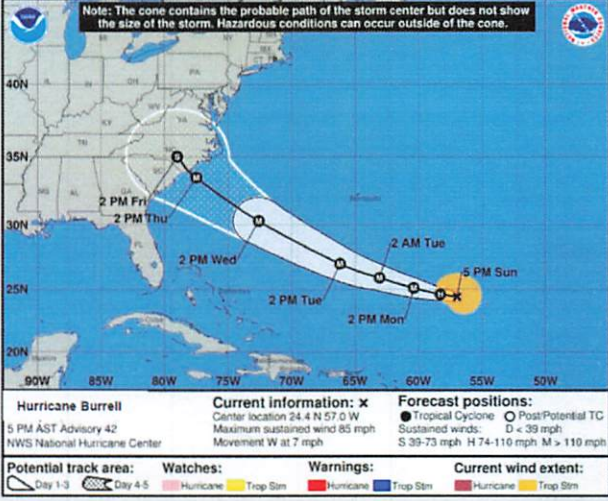

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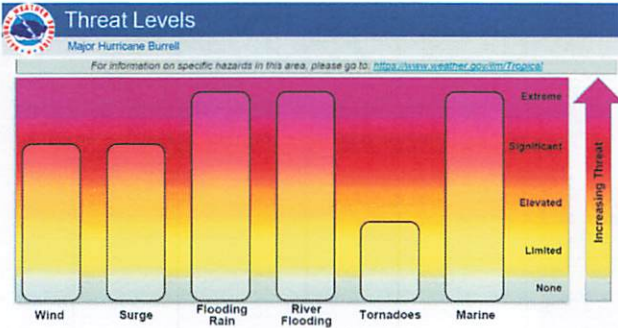
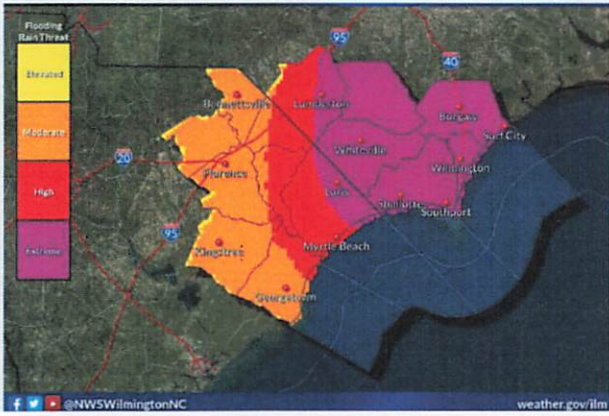
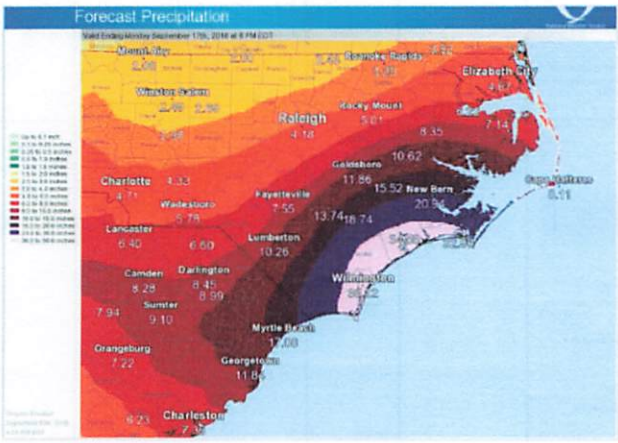
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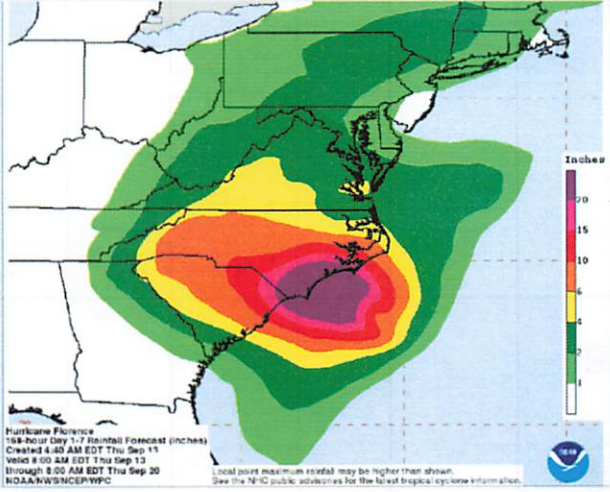

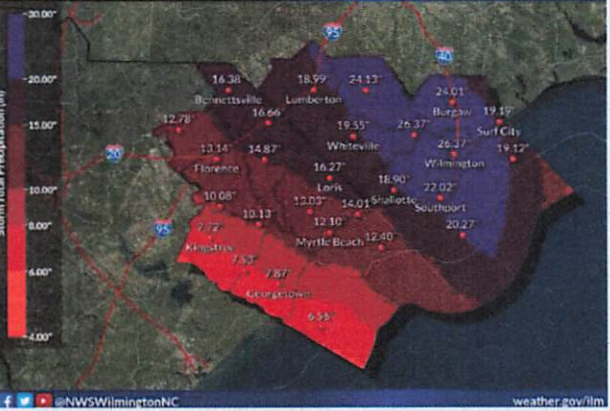
Combined text and graphics


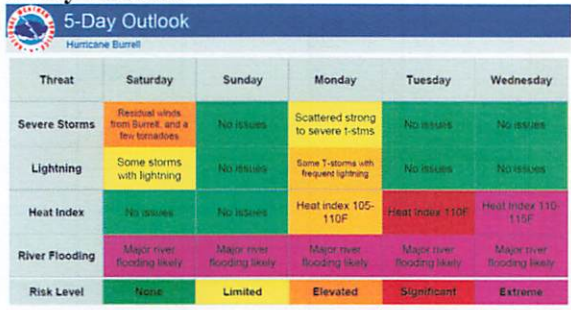
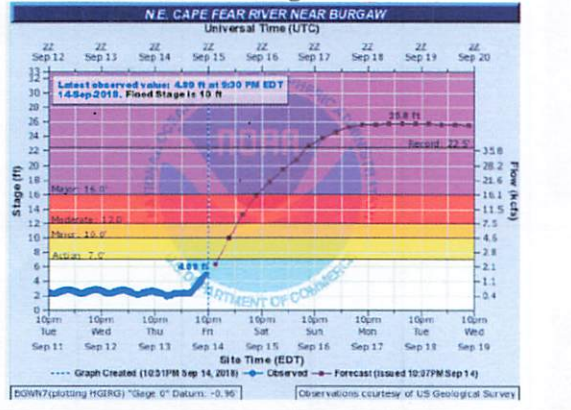
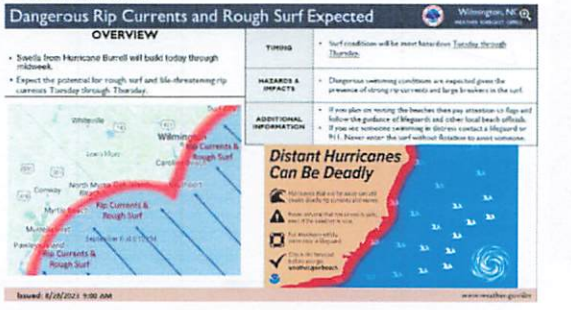
Please explain. Better to understand.

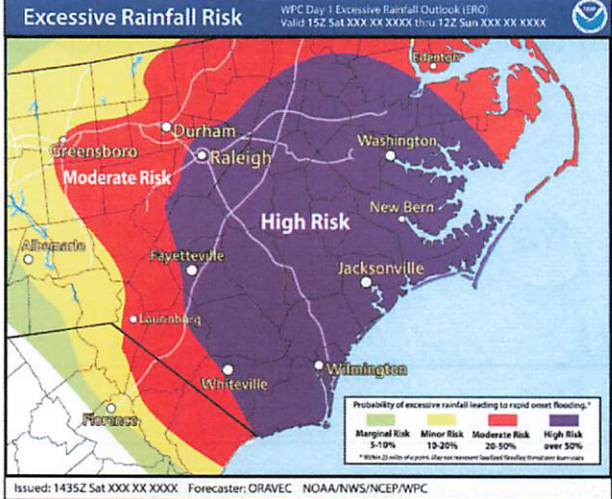
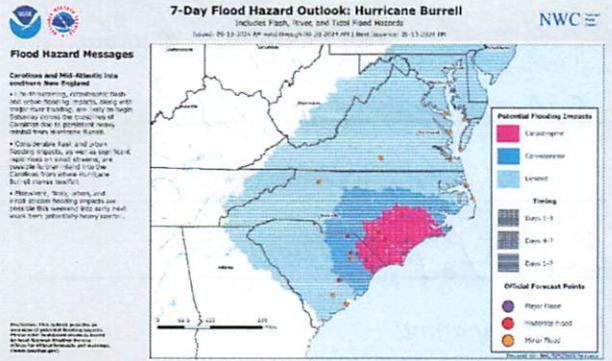
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<p>Hurricane Cone</p>  <p>Hurricane Burrell 5 PM AST Advisory 42 NWS National Hurricane Center</p> <p>Current information: x Center location 24.4 N 57.0 W Maximum sustained wind 85 mph Movement W at 7 mph</p> <p>Forecast positions: Tropical Cyclone: ● Sustained winds: D < 39 mph Post-Potential TC: ○ Sustained winds: S 39-73 mph H 74-110 mph M > 110 mph</p> <p>Potential track area: Day 1-3, Day 4-5 Watches: Hurricane, Trop SIm Warnings: Hurricane, Trop SIm Current wind extent: Hurricane, Trop SIm</p>	✓																												
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<p>Situation Overview</p>  <ul style="list-style-type: none"> • Life-threatening flooding is likely given the potential for excessive rainfall. A Flash Flood Watch is now in effect. • Catastrophic river flooding will develop and persist long after the storm exits the area. • Damaging hurricane force winds are likely, especially along portions of the coast. Strong winds could also spread well inland. A Hurricane Warning remains in effect. • The time for preparations is becoming limited. Take what preventative actions you can for impending strong winds, storm surge, and flooding rain. Follow any advice issued by local officials. 	✓																												

	Extremely useful	Very useful	Moderately useful	Slightly useful	Not at all useful
<p>Threat Levels</p> 				✓	
<p>Inland Flooding</p> 			✓		
<p>Forecast Precipitation</p> 	✓				

	Extremely useful	Very useful	Moderately useful	Slightly useful	Not at all useful
<p>Expected Storm Total Rainfall</p>  <p>Hurricane Florence 12-Hour Day 1-7 Rainfall Forecast (inches) Created 4:40 AM EDT Thu Sep 11 Valid 8:00 AM EDT Thu Sep 13 through 8:00 AM EDT Thu Sep 20 NOAA/NWS/NCEP/WWPC</p> <p>Local point maximum rainfall may be higher than shown. See the NHC public advisories for the latest tropical cyclone information.</p>	✓				
<p>River Flooding Outlook</p> 	✓				
<p>Additional Rainfall</p>  <p>Storm total precipitation (in)</p> <p>@NWSWilmingtonNC weather.gov/llm</p>	✓				

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	Extremely useful	Very useful	Moderately useful	Slightly useful	Not at all useful
<p>Excessive Rainfall Risk</p>  <p>WPC Day 1 Excessive Rainfall Outlook (ERO) Valid 15Z Sat XXX XX XXXX thru 12Z Sun XXX XX XXXX</p> <p>Issued: 1435Z Sat XXX XX XXXX Forecaster: ORAVEC NOAA/NWS/NCEP/WPC</p>					
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7. What changes might you recommend for any of the products shown?

*To make them more visad with better warding
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8. Which media would you use to find NWS information about the risk of flooding near you? Please circle all that apply:

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Other: TV

9. Which digital platform are you most likely to use to access NWS resources? Circle one.

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Other: TV

10. Was anything in the session confusing? Yes No

If Yes, please explain:

Some of the slides

11. What improvements could be made in the format or content of this session?

make them smaller and larger, close
in on the impact areas more.

12. Additional comments:

Very useful and helpful.

Thank you for participating!

Survey Questions - Post-Focus Group Session Survey

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1. Please rate your agreement with the following statements about the forum.

Please check ONE box for each statement.

	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
The information was clearly presented.		✓			
I felt comfortable voicing my opinion.		✓			
I know more about the National Weather Service (NWS) resources.		✓			
I feel I could use NWS resources to judge my risk in an extreme weather event.		✓			

2. What are the biggest barriers you face in using NWS flood forecast and warning products? Some examples to consider are lack of computer or phone, lack of internet access, language barriers, NWS products too difficult to understand, or other factors.

lack of internet with storms

3. Our goal today was to gather feedback to improve NWS flood forecast and warning tools. Beyond the questions asked today, what else would be important to know about how you gather/would use NWS information about extreme weather risks and your intended actions?

yes

4. After attending today's session, how likely are you to:

Please check ONE box for each statement.

	Very Likely	Somewhat Likely	Neither likely nor unlikely	Somewhat Unlikely	Unlikely
Create or revise plans to deal with extreme weather events using NWS products.		✓			
Share what I learned about NWS products today with others.	✓				
Seek NWS information about extreme weather risks.		✓			
Use NWS products and information in your decision-making		✓			

5. Do you prefer text-based or graphical/visual NWS products in trying to understand your level of risk from flooding? Circle one.

Text

Graphics

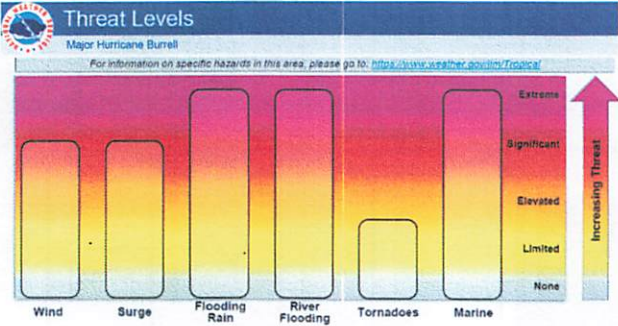
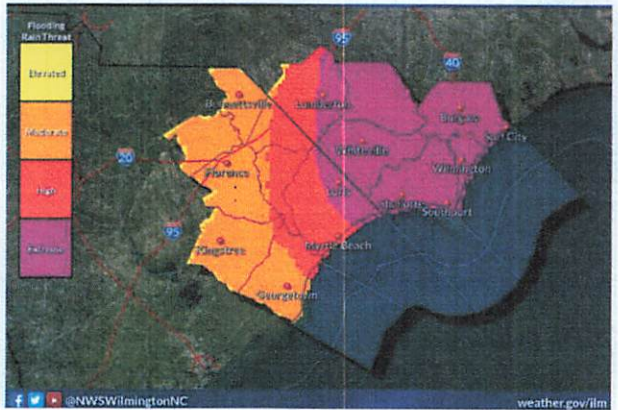
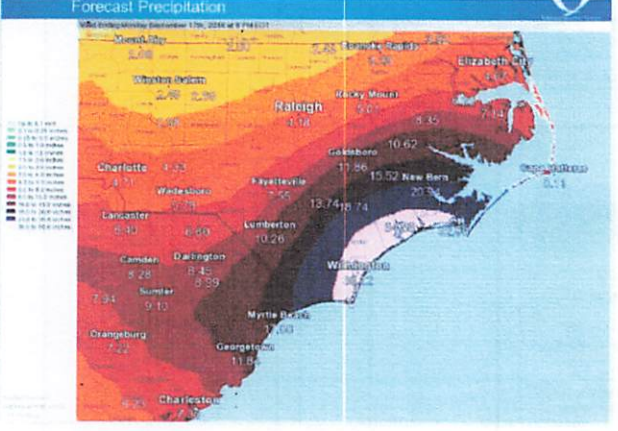
Combined text and graphics

Please explain.

text alerts + TV Graphics

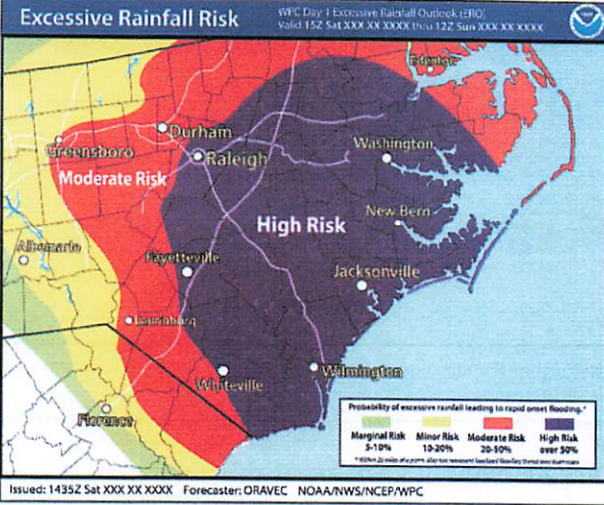
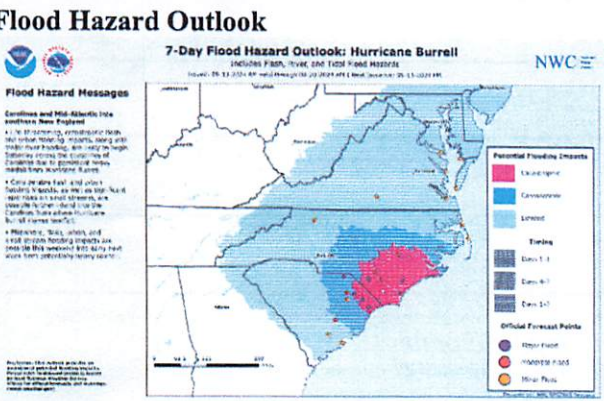
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<p>Inland Flooding</p> 			✓		
<p>Forecast Precipitation</p> 			✓		

	Extremely useful	Very useful	Moderately useful	Slightly useful	Not at all useful
<p>Expected Storm Total Rainfall</p> <p>Hurricane Florence 198-hour Day 1-7 Rainfall Forecast (inches) Created 4:40 AM EDT Thu Sep 11 Valid 8:00 AM EDT Thu Sep 11 through 8:00 AM EDT Thu Sep 20 NOAA/NWS/NCEP/WWPC</p>			✓		
<p>River Flooding Outlook</p>			✓		
<p>Additional Rainfall</p> <p>Storm total precipitation (in)</p> <p>@NWSWilmingtonNC weather.gov/film</p>				✓	

	Extremely useful	Very useful	Moderately useful	Slightly useful	Not at all useful																																				
<p>Key Take-Aways</p> <p>Key Take-Aways Major Hurricane Burrell</p> <p>Confidence is HIGH that the event will occur Confidence is HIGH regarding impacts</p> <ul style="list-style-type: none"> This is a life-threatening, and multi-hazard situation, ranging from the potential for extremely hazardous maritime conditions, and dangerous storm surge, high winds, and flooding As the storm nears the coast as a major hurricane it will slow in forward speed, creating unique forecast challenges and resulting in a long period of impacts Time is becoming limited for preparations. Take what remaining preventative actions you can. <p>Stay informed and listen for instructions from local officials. Please visit the following websites for information about protective actions</p> <p>https://www.weather.gov/safety/hurricane-plan or https://www.ready.gov/hurricanes</p>			✓																																						
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<p>Social media</p> <p>Dangerous Rip Currents and Rough Surf Expected Wilmington, NC</p> <p>OVERVIEW</p> <ul style="list-style-type: none"> Beachfront from Hurricane Burrell will back today through this week. Expect the potential for rough surf and life-threatening rip currents Tuesday through Thursday. <p>TIMING</p> <ul style="list-style-type: none"> Surf conditions will be most hazardous Tuesday through Thursday. <p>HAZARDS & IMPACTS</p> <ul style="list-style-type: none"> Deep ocean swimming conditions are expected given the presence of strong rip currents and large surf on the surf. <p>ADDITIONAL INFORMATION</p> <ul style="list-style-type: none"> When plan on visiting the beaches, check any warnings on flags and follow the guidance of lifeguards and other beachfront officials. If you are concerned regarding an alert on contact a lifeguard or 911. Please enter the surf-safety hotline for more information. <p>Distant Hurricanes Can Be Deadly</p> <p>News Bulletin for any coastal areas likely to be impacted by distant hurricanes.</p> <p>How to protect your property from hurricanes.</p> <p>How to protect your family from hurricanes.</p> <p>How to protect your pets from hurricanes.</p> <p>How to protect your animals from hurricanes.</p>			✓																																						

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<p>Flood Hazard Outlook</p>  <p>7-Day Flood Hazard Outlook: Hurricane Burrell Issued: 06 11 2024 09:00Z (P) 20 2024 (P) L (M) (S) (L) (L) (L) (L) (L)</p> <p>Flood Hazard Messages</p> <p>Conditions and 7-Day Outlooks into southern New England</p> <ul style="list-style-type: none"> • The storm's approach to the coast will be associated with heavy rain, and may be accompanied by heavy rain and flooding. Heavy rain and flooding may be accompanied by heavy rain and flooding. • Heavy rain and flooding may be accompanied by heavy rain and flooding. • Heavy rain and flooding may be accompanied by heavy rain and flooding. 				✓	

7. What changes might you recommend for any of the products shown?

Just the names of
 some of the categories

8. Which media would you use to find NWS information about the risk of flooding near you? Please circle all that apply:

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Twitter

Internet

Other: _____

9. Which digital platform are you most likely to use to access NWS resources? Circle one.

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10. Was anything in the session confusing? Yes No

If Yes, please explain:

11. What improvements could be made in the format or content of this session?

make it more simple to understand

12. Additional comments:

Thank you for participating!

Survey Questions - Post-Focus Group Session Survey

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1. Please rate your agreement with the following statements about the forum.

Please check ONE box for each statement.

	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
The information was clearly presented.	✓				
I felt comfortable voicing my opinion.	✓				
I know more about the National Weather Service (NWS) resources.	✓				
I feel I could use NWS resources to judge my risk in an extreme weather event.	✓				

2. What are the biggest barriers you face in using NWS flood forecast and warning products? Some examples to consider are lack of computer or phone, lack of internet access, language barriers, NWS products too difficult to understand, or other factors.

I think the changes will help, when we lose power, its hard to have access to anything,

3. Our goal today was to gather feedback to improve NWS flood forecast and warning tools. Beyond the questions asked today, what else would be important to know about how you gather/would use NWS information about extreme weather risks and your intended actions?

many ~~people~~ people cant read so we need grafes, but some can only read words so we many different forms to get the info out to the people, also we have color blind people

4. After attending today's session, how likely are you to:

Please check ONE box for each statement.

	Very Likely	Somewhat Likely	Neither likely nor unlikely	Somewhat Unlikely	Unlikely
Create or revise plans to deal with extreme weather events using NWS products.		✓			
Share what I learned about NWS products today with others.	✓				
Seek NWS information about extreme weather risks.	✓				
Use NWS products and information in your decision-making	✓				

5. Do you prefer text-based or graphical/visual NWS products in trying to understand your level of risk from flooding? Circle one.

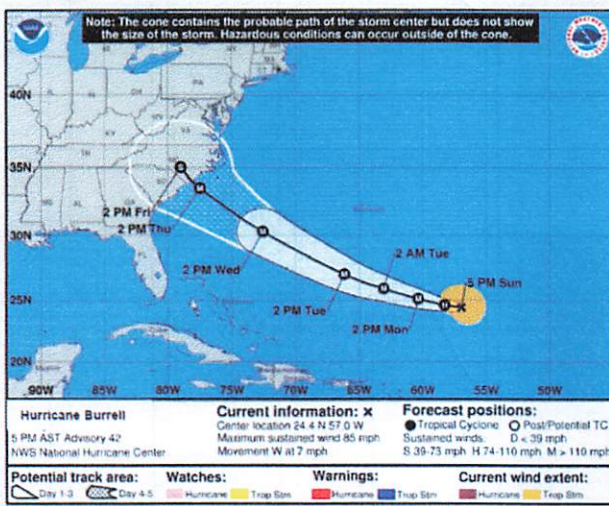

Text

Graphics

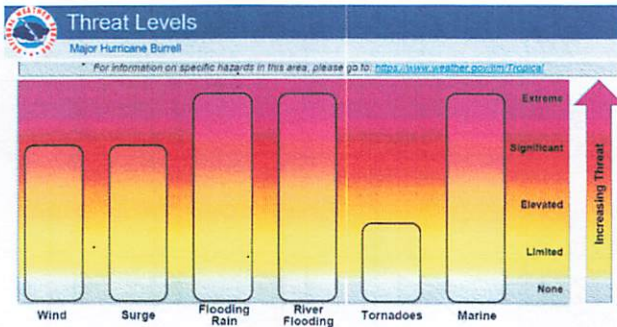
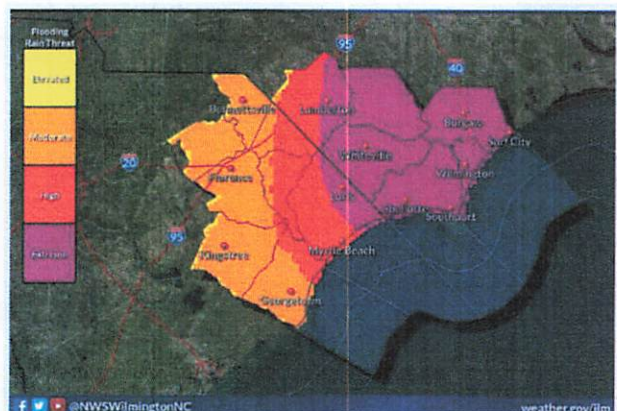
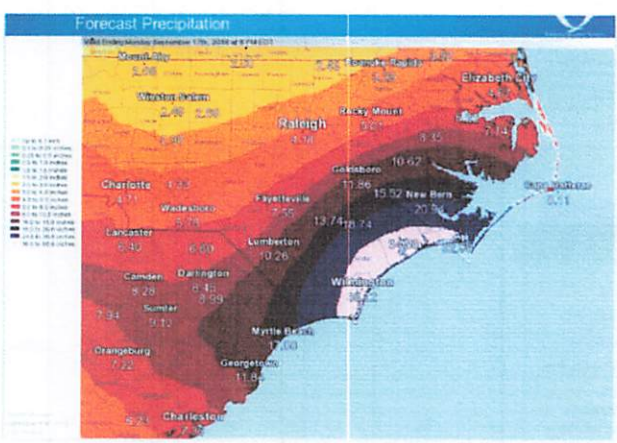
Combined text and graphics

Please explain. Different people need different things

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<p>Hurricane Cone</p>  <p>Hurricane Burrell 5 PM AST Advisory 42 NWS National Hurricane Center</p> <p>Current information: x Center location 24.4 N 87.0 W Maximum sustained wind 85 mph Movement W at 7 mph</p> <p>Forecast positions: ● Tropical Cyclone ○ Post/Potential TC Sustained winds: D < 39 mph S 39-73 mph H 74-110 mph M > 110 mph</p> <p>Potential track area: Day 1-3 Day 4-5 Watches: Hurricane Trop Sgn Warnings: Hurricane Trop Sgn Current wind extent: Hurricane Trop Sgn</p>																													
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<p>Situation Overview</p>  <ul style="list-style-type: none"> Life-threatening flooding is likely given the potential for excessive rainfall. A Flash Flood Watch is now in effect Catastrophic river flooding will develop and persist long after the storm exits the area Damaging hurricane force winds are likely, especially along portions of the coast. Strong winds could also spread well inland. A Hurricane Warning remains in effect. The time for preparations is becoming limited. Take what preventative actions you can for impending strong winds, storm surge, and flooding rain. Follow any advice issued by local officials. 																													

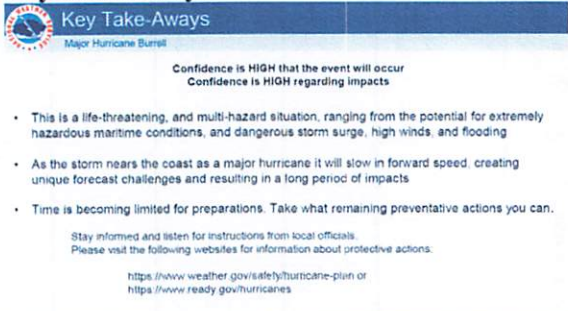
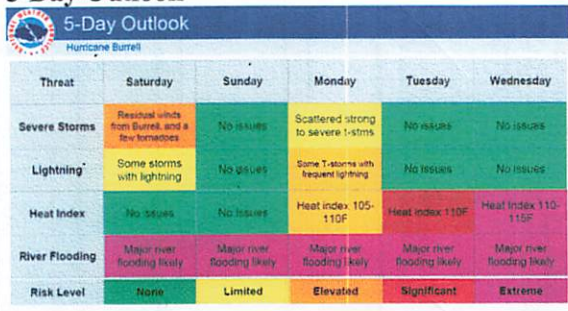
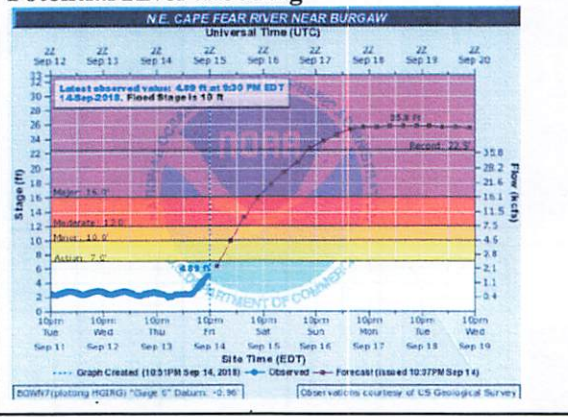
All helpful to me

	Extremely useful	Very useful	Moderately useful	Slightly useful	Not at all useful
<p>Threat Levels</p> 					
<p>Inland Flooding</p> 					
<p>Forecast Precipitation</p> 					

All useful to different people

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<p>River Flooding Outlook</p>	/				
<p>Additional Rainfall</p> <p>Storm (24 hr) Precipitation (in)</p> <p>©NWSWilmingtonNC weather.gov/ilm</p>	/				

All useful

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<p>Social media</p> <p>Dangerous Rip Currents and Rough Surf Expected</p> <p>Wilmington, NC @ WNCM</p> <p>OVERVIEW</p> <ul style="list-style-type: none"> Since then Hurricane Burrell will build today through the week. Expect the potential for rough surf and life-threatening currents Tuesday through Thursday. <p>THREATS</p> <ul style="list-style-type: none"> Surf conditions will be most hazardous Tuesday through Thursday. <p>HAZARDS & IMPACTS</p> <ul style="list-style-type: none"> Dangerous swimming conditions are expected given the presence of strong rip currents and large breaking waves. <p>ADDITIONAL INFORMATION</p> <ul style="list-style-type: none"> If you plan on visiting the beaches that pay attention to flags and follow the guidance of lifeguards and other local beach officials. If you are concerned regarding children contact a lifeguard or lifeguard supervisor. Check beach conditions at www.beach.gov <p>Distant Hurricanes Can Be Deadly</p> <p>Warnings issued for any coastal area facing the storm's path.</p> <p>Don't underestimate the power of a distant hurricane.</p> <p>Check beach conditions at www.beach.gov</p> <p>Issued: 01/01/2018 10:00 AM</p>																																									

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<p>Flood Hazard Outlook</p> <p>7-Day Flood Hazard Outlook: Hurricane Burrell Includes Fresh, River, and Estuarine Flood Hazards</p> <p>Flood Hazard Messages</p> <p>Conditions and Mid-Atlantic this weekend have improved. A 7-10 day outlook, atmospheric flow, and model-based flooding impacts, along with model-based flooding, are very low. High confidence exists that conditions of conditions due to potential waves needed near Hurricane Burrell.</p> <p>• Conditions have improved and will remain to remain low through the 7-10 day outlook. A 7-10 day outlook, atmospheric flow, and model-based flooding impacts, along with model-based flooding, are very low. High confidence exists that conditions of conditions due to potential waves needed near Hurricane Burrell.</p> <p>• Hurricane Burrell, which will cross the Atlantic coast near the Florida coast, may have a potential to bring rain to the Southeastern US.</p> <p>• Hurricane Burrell, which will cross the Atlantic coast near the Florida coast, may have a potential to bring rain to the Southeastern US.</p>					

7. What changes might you recommend for any of the products shown?

Im pretty ~~so~~ happy without come

8. Which media would you use to find NWS information about the risk of flooding near you? Please circle all that apply:

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10. Was anything in the session confusing? Yes No

If Yes, please explain:

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12. Additional comments:

Thanky guys!!

Thank you for participating!

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The information was clearly presented.	✓				
I felt comfortable voicing my opinion.	✓				
I know more about the National Weather Service (NWS) resources.		✓			
I feel I could use NWS resources to judge my risk in an extreme weather event.		✓			

2. What are the biggest barriers you face in using NWS flood forecast and warning products? Some examples to consider are lack of computer or phone, lack of internet access, language barriers, NWS products too difficult to understand, or other factors.

Internet service working / Phone service

3. Our goal today was to gather feedback to improve NWS flood forecast and warning tools. Beyond the questions asked today, what else would be important to know about how you gather/would use NWS information about extreme weather risks and your intended actions?

4. After attending today's session, how likely are you to:

Please check ONE box for each statement.

	Very Likely	Somewhat Likely	Neither likely nor unlikely	Somewhat Unlikely	Unlikely
Create or revise plans to deal with extreme weather events using NWS products.	✓				
Share what I learned about NWS products today with others.	✓				
Seek NWS information about extreme weather risks.		✓			
Use NWS products and information in your decision-making		✓			

5. Do you prefer text-based or graphical/visual NWS products in trying to understand your level of risk from flooding? Circle one.

Text

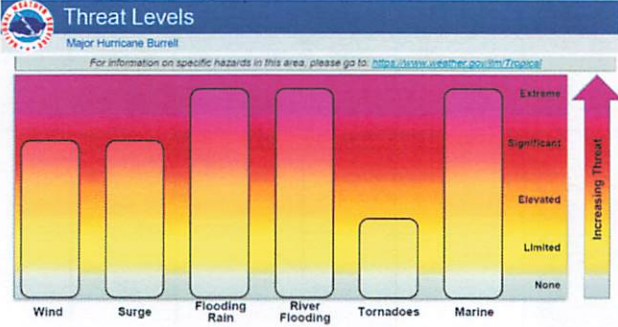
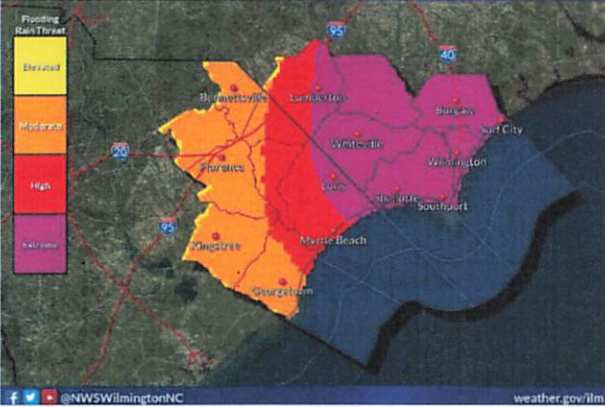
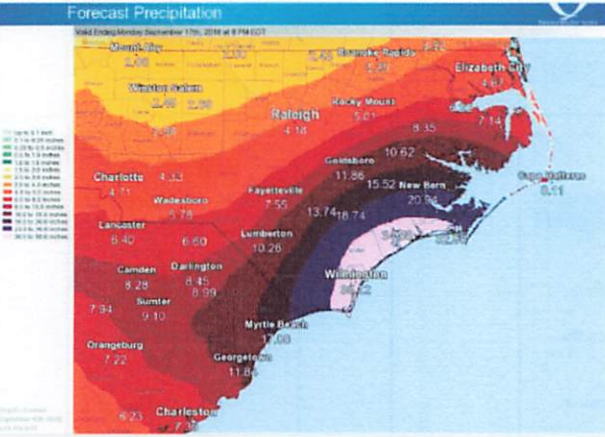
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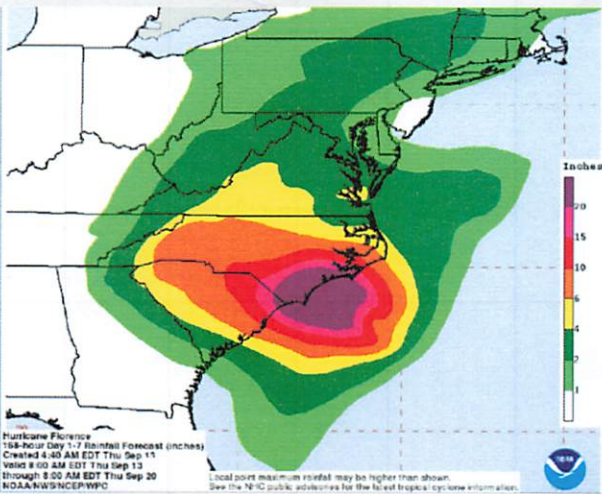

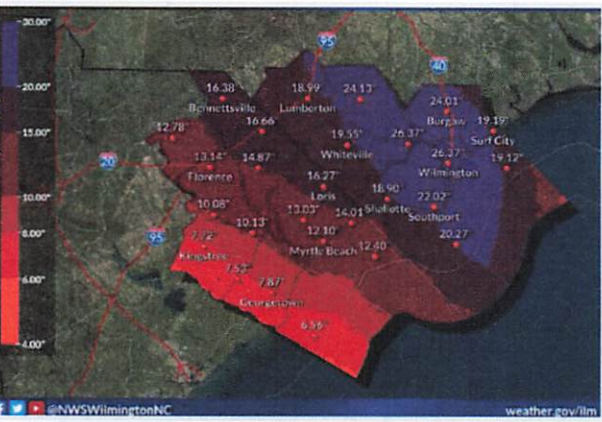
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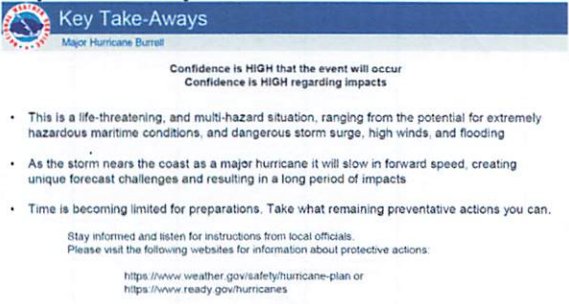
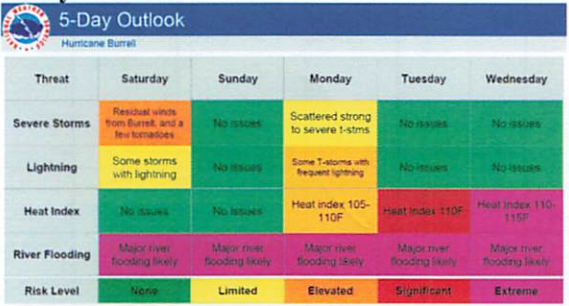
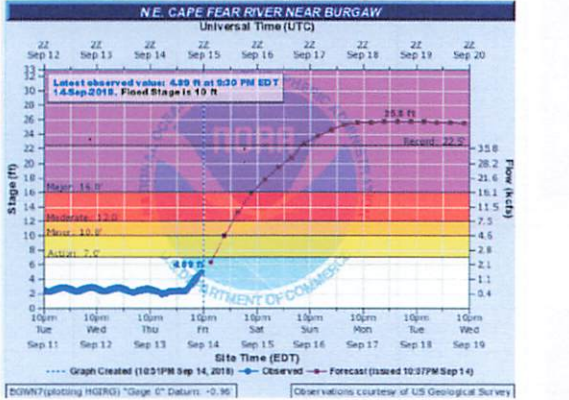
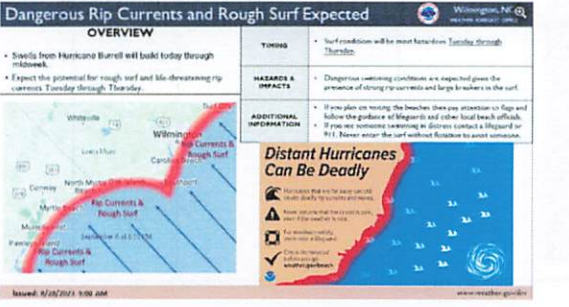
Please explain. visual is easier to comprehend

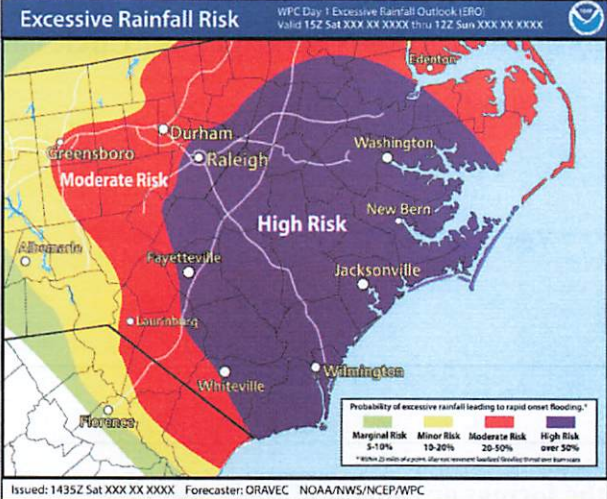
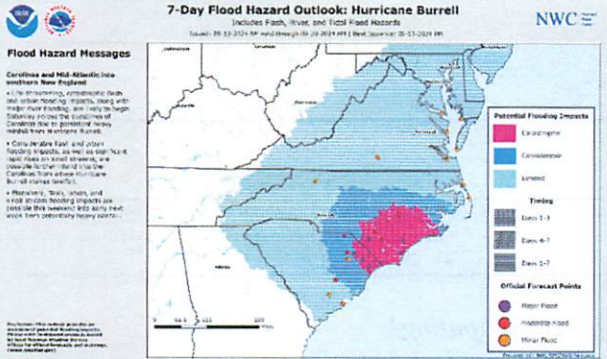
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Threat Levels  <p>The graphic shows threat levels for various hazards. A vertical color scale on the right indicates threat levels from None (yellow) to Extreme (red). A blue checkmark is present in the 'Moderately useful' column.</p>			✓		
Inland Flooding  <p>The map shows inland flooding threat levels across the Southeastern United States. A legend on the left indicates threat levels: Elevated (yellow), Moderate (orange), High (red), and Very High (dark red). A blue checkmark is present in the 'Very useful' column.</p>		✓			
Forecast Precipitation  <p>The map shows forecast precipitation for the Southeastern United States. A legend on the left indicates precipitation amounts in inches, ranging from 0.00 to 16.00. A blue checkmark is present in the 'Very useful' column.</p>		✓			

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River Flooding Outlook 		✓			
Additional Rainfall  <p>Storm Total Precipitation (in)</p> <p>weather.gov/ilm</p> <p>@NWSWilmingtonNC</p>			✓		

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<p>Social media</p>  <p>Dangerous Rip Currents and Rough Surf Expected Wilmington, NC</p> <p>Overview:</p> <ul style="list-style-type: none"> Swells from Hurricane Burrell will build today through tomorrow. Expect the potential for rough surf and life-threatening rip currents Thursday through Saturday. <p>Things:</p> <ul style="list-style-type: none"> Surf conditions will be most hazardous Tuesday through Thursday. <p>Hazards & Impacts:</p> <ul style="list-style-type: none"> Dangerous swimming conditions are expected given the presence of strong rip currents and large breakers in the surf. <p>Additional Information:</p> <ul style="list-style-type: none"> If you plan on visiting the beaches, please pay attention to flags and follow the guidance of lifeguards and other beach officials. If you are someone swimming in, please contact a lifeguard or 911. Never enter the surf without flotation to assist someone. <p>Distant Hurricanes Can Be Deadly</p> <p>Wilmington, NC</p>	✓																																								

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<p>Excessive Rainfall Risk</p>  <p>WPC Day 1 Excessive Rainfall Outlook (ERO) Valid 15Z Sat XXX XX XXXX thru 12Z Sun XXX XX XXXX</p> <p>Issued: 1435Z Sat XXX XX XXXX Forecaster: ORAVEC NOAA/NWS/NCEP/WPC</p>	✓				
<p>Flood Hazard Outlook</p>  <p>7-Day Flood Hazard Outlook: Hurricane Burrell Includes Fresh, River, and Tidal Flood Hazards</p> <p>Issued: 09:53:2024 10:00Z through 09:29:2024 01:00Z. Source: 08-03-2024 09:53</p>		✓			

7. What changes might you recommend for any of the products shown?

8. Which media would you use to find NWS information about the risk of flooding near you? Please circle all that apply:

Facebook

Twitter

Internet

Other: phone App

9. Which digital platform are you most likely to use to access NWS resources? Circle one.

Smartphone

Tablet

Laptop

Desktop

Other: _____

10. Was anything in the session confusing? Yes No

If Yes, please explain:

11. What improvements could be made in the format or content of this session?

larger images

12. Additional comments:

I really enjoyed the presentation

Thank you for participating!

Survey Questions - Post-Focus Group Session Survey

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995 unless the information collection has a currently valid OMB Control Number. The approved OMB Control Number for this information collection is 0690-0030. Without this approval, we could not conduct this post-focus group survey collection. Public reporting for this information collection is estimated to be approximately 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. All responses to this information collection are voluntary. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Nurture Nature Center at: 518 Northampton Street, Easton, PA 18042, Attn: Rachel Hogan Carr, Executive Director, rhogan@nurturenature.org.

1. Please rate your agreement with the following statements about the forum.

Please check ONE box for each statement.

	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
The information was clearly presented.	✓				
I felt comfortable voicing my opinion.		✓			
I know more about the National Weather Service (NWS) resources.					
I feel I could use NWS resources to judge my risk in an extreme weather event.		✓			

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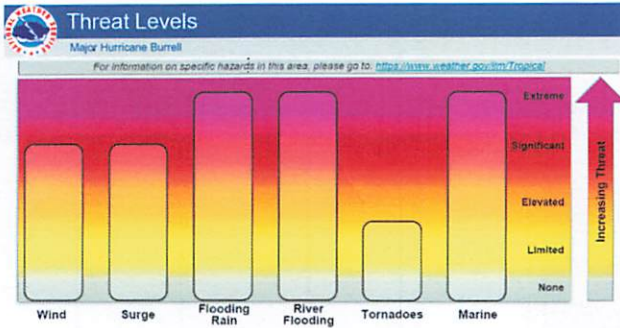
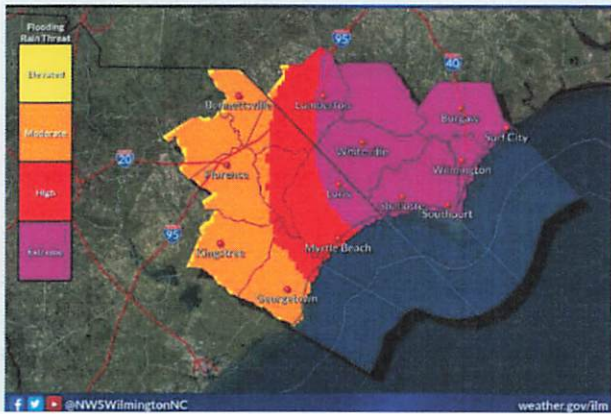
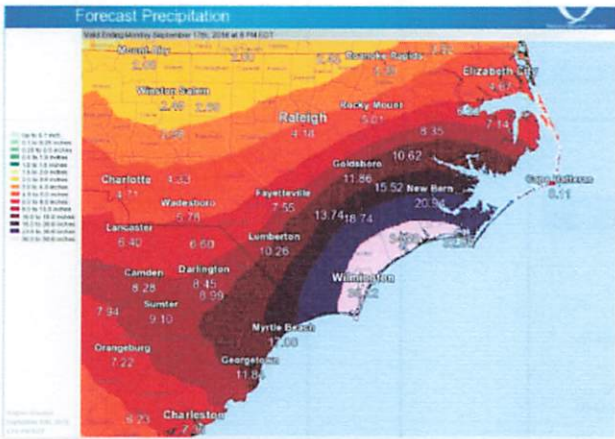
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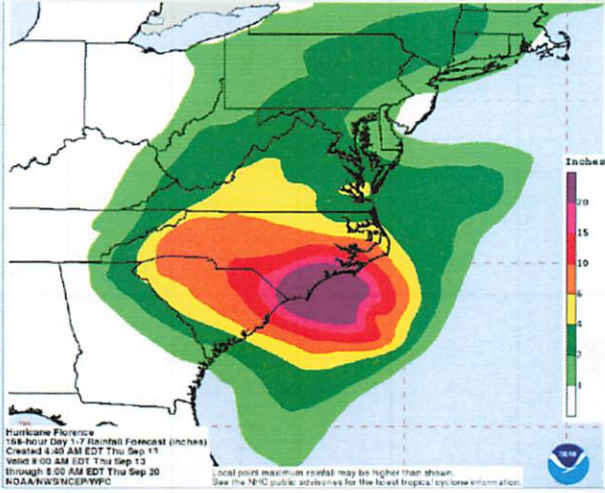
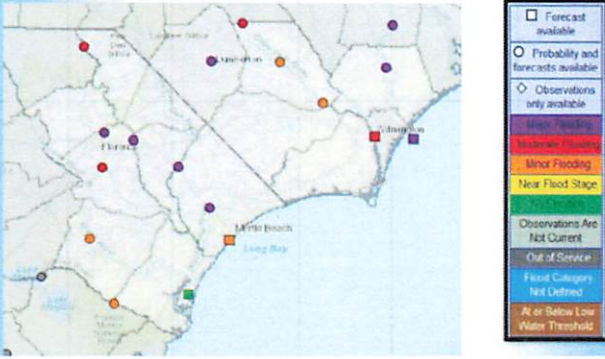
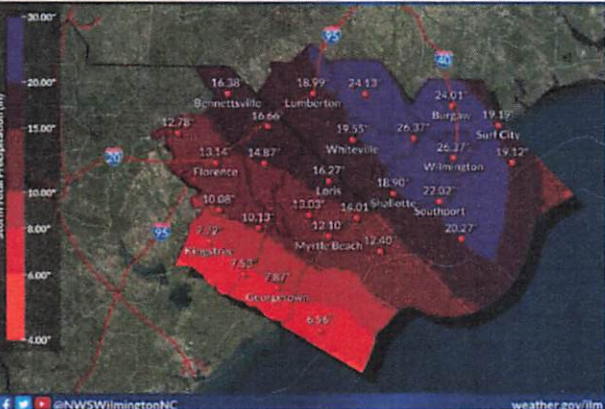
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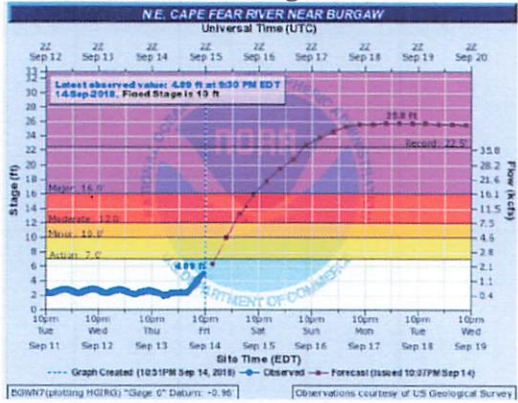
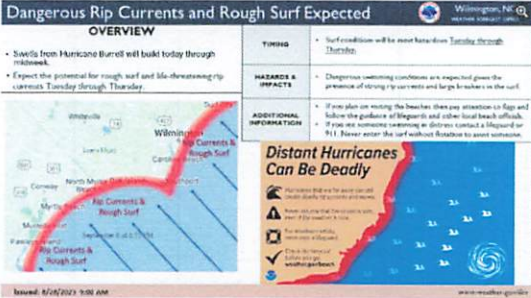
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<p>Inland Flooding</p> 		✓			
<p>Forecast Precipitation</p> 			✓		

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<p>River Flooding Outlook</p> 		✓ ✓			
<p>Additional Rainfall</p>  <p>Storm Total Precipitation (in)</p> <p>©AHSWilmingtonNC weather now/llm</p>		✓			

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<p>Potential River Flooding</p>  <p>Graph showing Stage (ft) vs. Site Time (EDT) for N.E. CAPE FEAR RIVER NEAR BURGAW. The graph includes observed data (blue line) and a forecast (red line) starting from 10:37 PM Sep 14. Key markers include a lowest observed water level of 4.25 ft at 8:50 PM EDT on 14 Sep 2018 and a flood stage of 13 ft. The forecast shows a significant rise in stage, reaching approximately 35.8 ft by late September.</p>			✓																																						
<p>Social media</p>  <p>Graphic titled "Dangerous Rip Currents and Rough Surf Expected" from Wilmington, NC. It includes an overview of the hazard, a map of the Wilmington area showing rip current locations, and a section titled "Distant Hurricanes Can Be Deadly" with safety instructions. The graphic notes that surf conditions will be most hazardous Tuesday through Thursday.</p>			✓																																						

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<p>Excessive Rainfall Risk</p> <p>WPC Day 1 Excessive Rainfall Outlook (ERO) Valid 15Z Sat XXX XX XXXX thru 12Z Sun XXX XX XXXX</p> <p>Issued: 1435Z Sat XXX XX XXXX Forecaster: ORAVEC NOAA/NWS/NCEP/WPC</p>		✓			
<p>Flood Hazard Outlook</p> <p>7-Day Flood Hazard Outlook: Hurricane Burrell Includes Fresh, River, and Tidal Flood Hazards</p> <p>Issued: 09-23-2024 09:20:00 UTC (09-23-2024 05:11 AM) Next Issuance: 09-23-2024 11:00:00 UTC</p> <p>Flood Hazard Messages</p> <p>Caribbean and Mid-Atlantic Area Southwest New England</p> <ul style="list-style-type: none"> The intensifying, approaching flood risk on the coast of New England, along with major surge flooding, will likely be high. Substantially across the coastline of Connecticut due to potential waves induced from Hurricane Burrell. Coastal surge flooding and other flooding hazards are expected to be high along the coast of New England, due to the combination of surge flooding from the Caribbean Sea and Hurricane Burrell's storm surge. Minority, New York, and other coastal flooding hazards are expected to be moderate to high along the coast of New England. <p>Potential Flooding Impacts</p> <ul style="list-style-type: none"> Coastal Surge Inland Tides Days 1-3 Days 4-7 Days 5-7 <p>Official Forecast Points</p> <ul style="list-style-type: none"> Major Flood Moderate Flood Minor Flood 		✓			

7. What changes might you recommend for any of the products shown?

8. Which media would you use to find NWS information about the risk of flooding near you? Please circle all that apply:

Facebook Twitter Internet Other: _____

9. Which digital platform are you most likely to use to access NWS resources? Circle one.

Smartphone Tablet Laptop Desktop Other: _____

10. Was anything in the session confusing? Yes No

If Yes, please explain:

11. What improvements could be made in the format or content of this session?

12. Additional comments:

Thank you for participating!

Survey Questions - Post-Focus Group Session Survey

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995 unless the information collection has a currently valid OMB Control Number. The approved OMB Control Number for this information collection is 0690-0030. Without this approval, we could not conduct this post-focus group survey collection. Public reporting for this information collection is estimated to be approximately 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. All responses to this information collection are voluntary. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Nurture Nature Center at: 518 Northampton Street, Easton, PA 18042, Attn: Rachel Hogan Carr, Executive Director, rhogan@nurturenature.org.

1. Please rate your agreement with the following statements about the forum.

Please check ONE box for each statement.

	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
The information was clearly presented.	✓				
I felt comfortable voicing my opinion.	✓				
I know more about the National Weather Service (NWS) resources.		✓			
I feel I could use NWS resources to judge my risk in an extreme weather event.		✓			

2. What are the biggest barriers you face in using NWS flood forecast and warning products? Some examples to consider are lack of computer or phone, lack of internet access, language barriers, NWS products too difficult to understand, or other factors.

The Area needs better internet access

3. Our goal today was to gather feedback to improve NWS flood forecast and warning tools. Beyond the questions asked today, what else would be important to know about how you gather/would use NWS information about extreme weather risks and your intended actions?

not sure; maybe more info about NWS

4. After attending today's session, how likely are you to:

Please check ONE box for each statement.

	Very Likely	Somewhat Likely	Neither likely nor unlikely	Somewhat Unlikely	Unlikely
Create or revise plans to deal with extreme weather events using NWS products.		✓			
Share what I learned about NWS products today with others.		✓			
Seek NWS information about extreme weather risks.		✓			
Use NWS products and information in your decision-making		✓			

5. Do you prefer text-based or graphical/visual NWS products in trying to understand your level of risk from flooding? Circle one.

Text

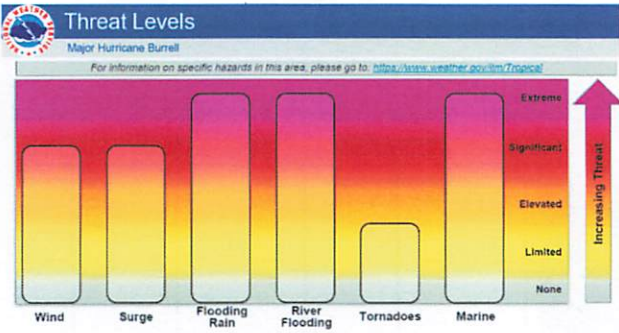
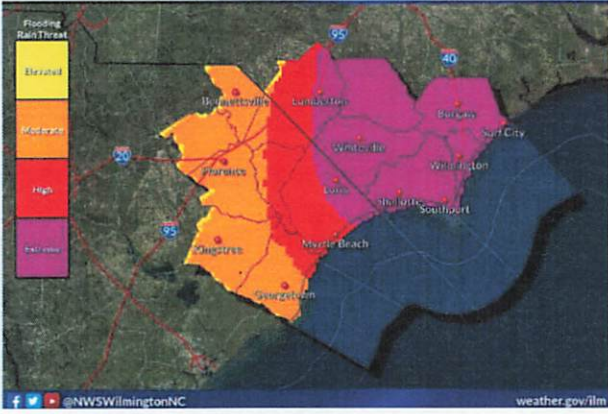
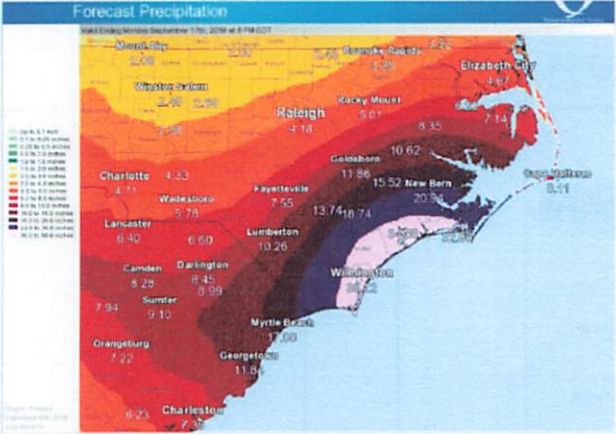
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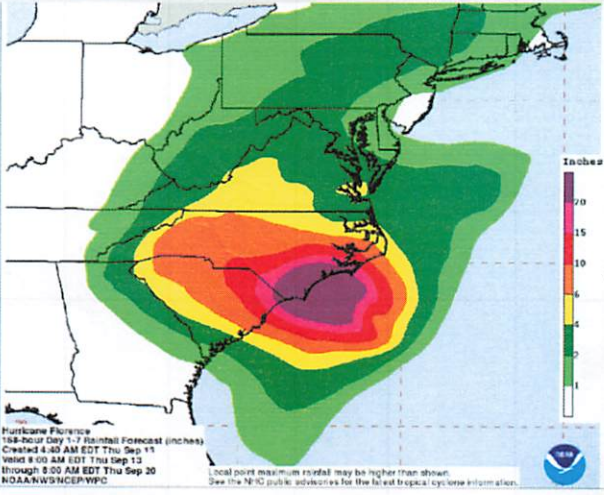

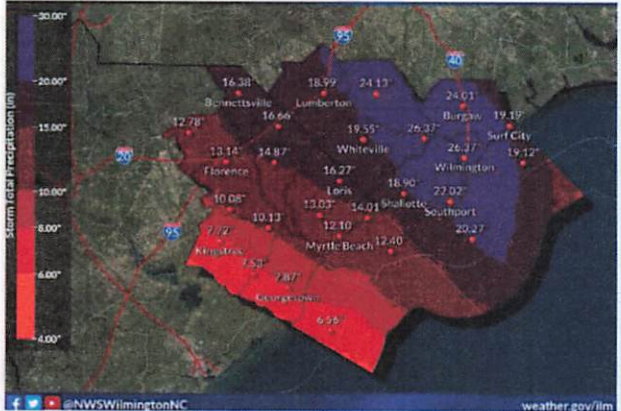
✓ Combined text and graphics

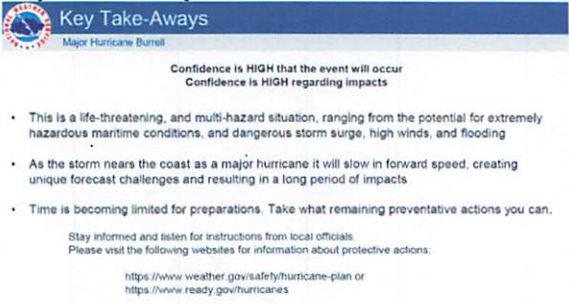
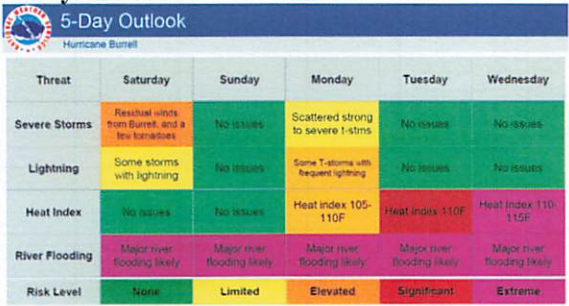
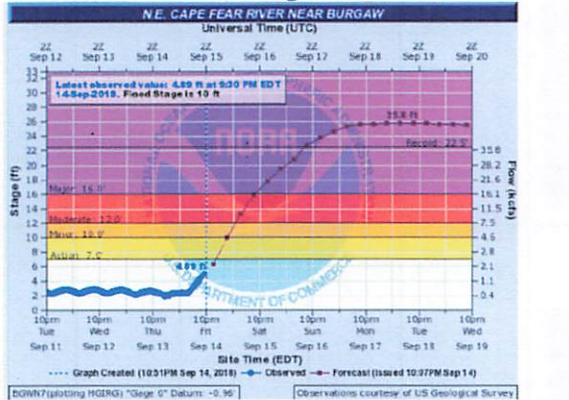
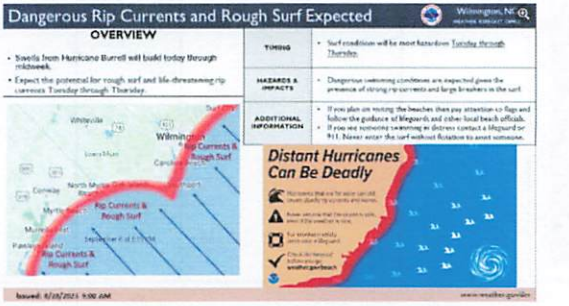
Please explain. _____

6. Please rate the weather products discussed today based on their usefulness to you in assessing your flood situation.

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<p>Hurricane Cone</p> <p>Hurricane Burrell 5 PM AST Advisory 42 NWS National Hurricane Center</p> <p>Current information: x Center location 24.4 N 57.0 W Maximum sustained wind 85 mph Movement W at 7 mph</p> <p>Forecast positions: ● Tropical Cyclone ○ Post-Potential TC Sustained winds: D < 39 mph S 39-73 mph H 74-110 mph M > 110 mph</p> <p>Potential track area: Day 1-3 Day 4-5 Watches: Hurricane Trop Stm Warnings: Hurricane Trop Stm Current wind extent: Hurricane Trop Stm</p>	✓	✓																											
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<p>Situation Overview</p> <p>Situation Overview Major Hurricane Burrell</p> <ul style="list-style-type: none"> • Life-threatening flooding is likely given the potential for excessive rainfall. A Flash Flood Watch is now in effect. • Catastrophic river flooding will develop and persist long after the storm exits the area • Damaging hurricane force winds are likely, especially along portions of the coast. Strong winds could also spread well inland. A Hurricane Warning remains in effect. • The time for preparations is becoming limited. Take what preventative actions you can for impending strong winds, storm surge, and flooding rain. Follow any advice issued by local officials. 		✓																											

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<p>Threat Levels</p> 		✓	✓		
<p>Inland Flooding</p> 		✓			
<p>Forecast Precipitation</p> 		✓			

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<p>Expected Storm Total Rainfall</p>  <p>Hurricane Florence 18-Hour Day 1-7 Rainfall Forecast (inches) Created 4:40 AM EDT Thu Sep 11 Valid 8:00 AM EDT Thu Sep 13 through 8:00 AM EDT Thu Sep 20 NOAA/NWS/NCEP/WWC</p> <p>Local point maximum rainfall may be higher than shown. See the NWS public advisories for the latest tropical cyclone information.</p>			↙		
<p>River Flooding Outlook</p>  <p>Legend: <input type="checkbox"/> Forecast available <input type="checkbox"/> Probability and forecasts available <input type="checkbox"/> Observations only available Major Flooding Moderate Flooding Minor Flooding Near Flood Stage Observations Are Not Current Out of Service Flood Category Not Defined At or Below Low Water Threshold</p>		↙			
<p>Additional Rainfall</p>  <p>Storm total precipitation (in)</p> <p>Locations and rainfall amounts (in): Booneville: 16.38 Lumberton: 18.99 Burgaw: 24.01 12.78 16.66 24.13 19.19 13.14 34.87 Whiteville: 19.55 26.37 19.12 Florence: 16.27 18.90 27.02 10.08 13.03 14.01 12.10 20.27 7.72 10.13 Myrtle Beach: 12.40 7.87 6.98</p> <p>weather.gov/im</p>			↙		

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<h3>Social media</h3> <h4>Dangerous Rip Currents and Rough Surf Expected</h4>  <p>OVERVIEW</p> <ul style="list-style-type: none"> Swells from Hurricane Burrell will build today through midweek. Expect the potential for rough surf and life-threatening rip currents Tuesday through Thursday. <p>TIMING</p> <ul style="list-style-type: none"> Surf conditions will be most hazardous Tuesday through Thursday. <p>HAZARDS & IMPACTS</p> <ul style="list-style-type: none"> Dangerous swimming conditions are expected given the presence of strong rip currents and large breakers on the surf. <p>ADDITIONAL INFORMATION</p> <ul style="list-style-type: none"> If you plan on visiting the beaches then pay attention to flags and follow the guidance of lifeguards and other beach staff. If you are swimming, swimming in deeper water is preferred for #1. Never enter the surf without flotation to assist exitation. <p>Distant Hurricanes Can Be Deadly</p> <ul style="list-style-type: none"> Remember that even for areas far from the storm's direct path, hurricanes can be deadly. Be prepared with emergency supplies and a plan. Evacuate if you are in a coastal area. Check the latest information on the weather.gov website. <p>Issued: 07/27/2018 9:00 AM www.weather.gov</p>			✓																																						

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<p>Excessive Rainfall Risk</p>					
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7. What changes might you recommend for any of the products shown?

We talked about them in the meeting

8. Which media would you use to find NWS information about the risk of flooding near you? Please circle all that apply:

Facebook Twitter Internet Other: TV

9. Which digital platform are you most likely to use to access NWS resources? Circle one.

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10. Was anything in the session confusing? Yes No

If Yes, please explain:

11. What improvements could be made in the format or content of this session?

12. Additional comments:

Thank you for participating!

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Please check ONE box for each statement.

	Very Likely	Somewhat Likely	Neither likely nor unlikely	Somewhat Unlikely	Unlikely
Create or revise plans to deal with extreme weather events using NWS products.	✓				
Share what I learned about NWS products today with others.	✓				
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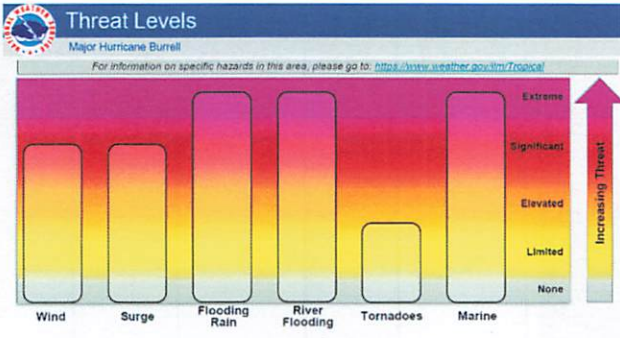
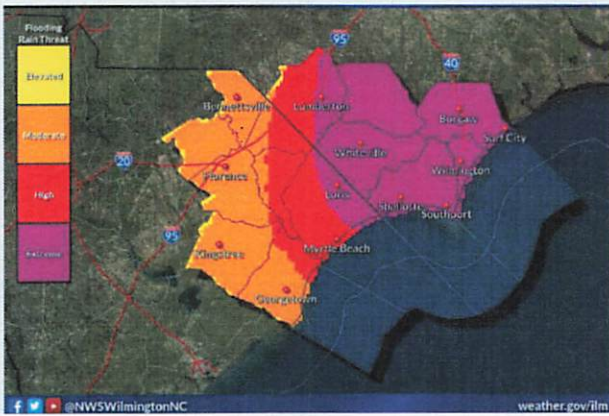
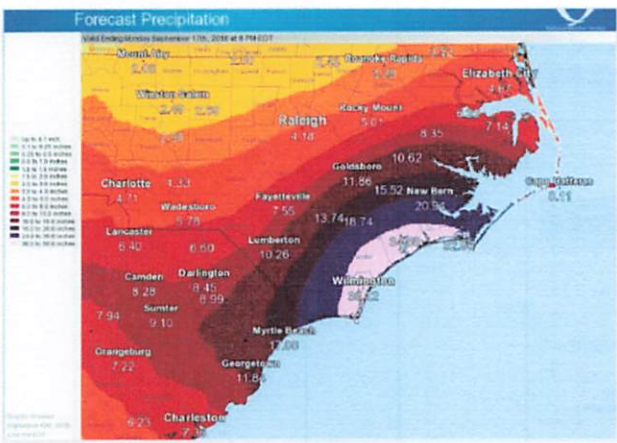
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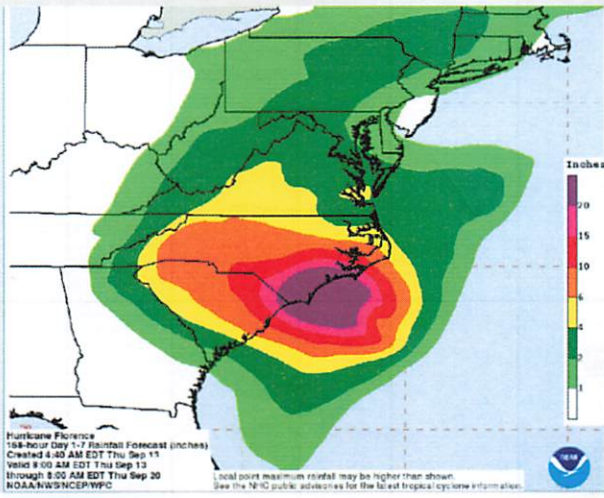

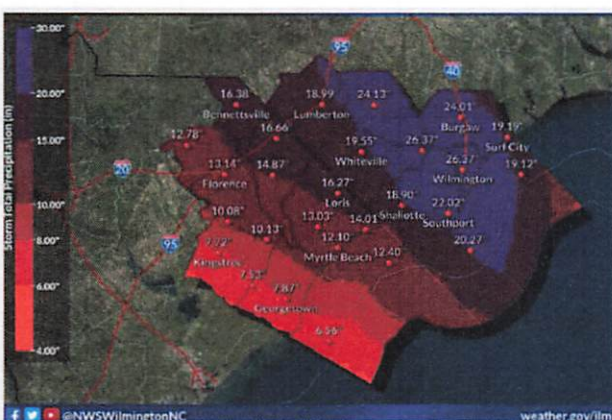
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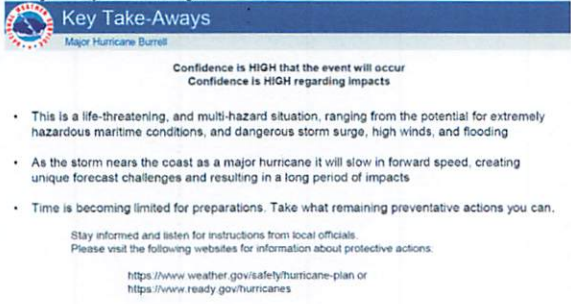
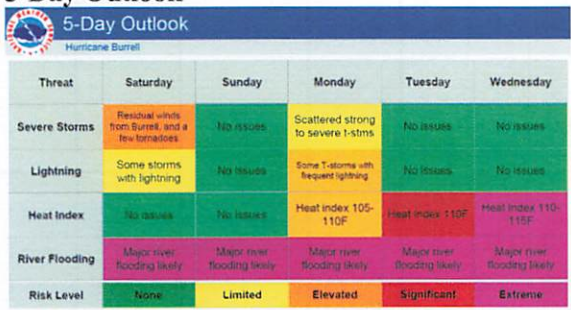
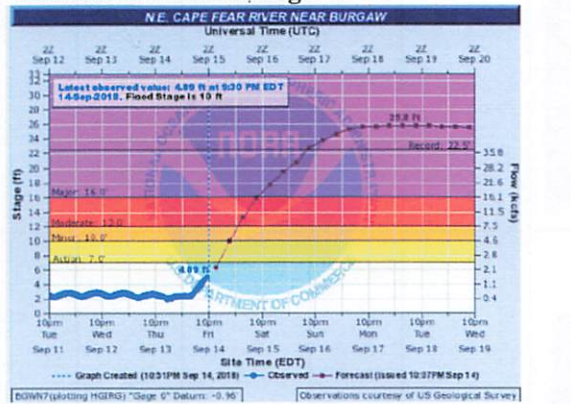

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<p>Threat Levels</p> 				✓	
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<p>Expected Storm Total Rainfall</p>  <p>Hurricane Florence 168-hour Day 7-7 Rainfall Forecast (inches) Created 4:00 AM EDT Thu Sep 13 Valid 8:00 AM EDT Thu Sep 13 through 8:00 AM EDT Thu Sep 20 NOAA/NWS/NCEP/WWP</p> <p>Local point maximum rainfall may be higher than shown. See the NWS public advisories for the latest tropical cyclone information.</p>				✓	
<p>River Flooding Outlook</p>  <p>Legend: <input type="checkbox"/> Forecast available <input type="checkbox"/> Probability and forecasts available <input type="checkbox"/> Observations only available Major Flooding Moderate Flooding Minor Flooding Near Flood Stage Observations Are Not Current Out of Service Flood Category Not Listed At or Below Low Water Threshold</p>				✓	
<p>Additional Rainfall</p>  <p>Storm total precipitation (in)</p> <p>Locations and rainfall amounts: Bennettsville: 16.38 Lumberton: 18.99 24.13 24.01 12.78 16.66 19.55 26.37 19.49 13.14 14.87 16.27 26.27 19.12 Florence: 10.08 10.17 12.80 14.01 22.02 18.90 12.80 12.80 20.27 7.77 7.87 12.40 6.55</p> <p>@NWSWilmingtonNC weather.rov/ilm</p>				✓	

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<p>Flood Hazard Outlook</p> <p>7-Day Flood Hazard Outlook: Hurricane Burrell Includes Flood, River, and Tidal Flood Hazards</p> <p>Issued: 09:32:2024 AM valid through 09:20:2024 AM Best. Source: 09:15:2024 AM</p> <p>Flood Hazard Messages</p> <p>Caroline and Mid-Atlantic State weather News England as the increasingly comprehensive flood and other flood up impacts, along with major river flooding, are likely to begin Subsiding from the coastline of Caroline that is potential water hazard from Hurricane Burrell.</p> <p>Caroline State and other flood impacts, as well as other flood impacts on other states, as a low as the end of the Caroline State and Hurricane Burrell states (see 7).</p> <p>However, there, other, and and other flooding impacts are also the the forecast and other flood impacts from potential water hazard.</p> <p>Remember: This outlook provides an overview of potential flooding hazards. For more information, visit the National Weather Service website. https://www.weather.gov/oh/forecast</p>				✓	

7. What changes might you recommend for any of the products shown?

Change the wording to the forecast

8. Which media would you use to find NWS information about the risk of flooding near you? Please circle all that apply:

Facebook

Twitter

Internet

Other: _____

9. Which digital platform are you most likely to use to access NWS resources? Circle one.

Smartphone

Tablet

Laptop

Desktop

Other: _____

10. Was anything in the session confusing? Yes No

If Yes, please explain:

The words use to describe the level of weather

11. What improvements could be made in the format or content of this session?

change of name

12. Additional comments:

Thank you for participating!

Survey Questions - Post-Focus Group Session Survey

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995 unless the information collection has a currently valid OMB Control Number. The approved OMB Control Number for this information collection is 0690-0030. Without this approval, we could not conduct this post-focus group survey collection. Public reporting for this information collection is estimated to be approximately 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. All responses to this information collection are voluntary. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Nurture Nature Center at: 518 Northampton Street, Easton, PA 18042, Attn: Rachel Hogan Carr, Executive Director, rhogan@nurturenature.org.

1. Please rate your agreement with the following statements about the forum.

Please check ONE box for each statement.

	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
The information was clearly presented.	✓				
I felt comfortable voicing my opinion.		✓			
I know more about the National Weather Service (NWS) resources.		✓			
I feel I could use NWS resources to judge my risk in an extreme weather event.		✓			

2. What are the biggest barriers you face in using NWS flood forecast and warning products? Some examples to consider are lack of computer or phone, lack of internet access, language barriers, NWS products too difficult to understand, or other factors.

3. Our goal today was to gather feedback to improve NWS flood forecast and warning tools. Beyond the questions asked today, what else would be important to know about how you gather/would use NWS information about extreme weather risks and your intended actions?

4. After attending today's session, how likely are you to:

Please check ONE box for each statement.

	Very Likely	Somewhat Likely	Neither likely nor unlikely	Somewhat Unlikely	Unlikely
Create or revise plans to deal with extreme weather events using NWS products.		✓			
Share what I learned about NWS products today with others.		✓			
Seek NWS information about extreme weather risks.	✓				
Use NWS products and information in your decision-making	✓				

5. Do you prefer text-based or graphical/visual NWS products in trying to understand your level of risk from flooding? Circle one.

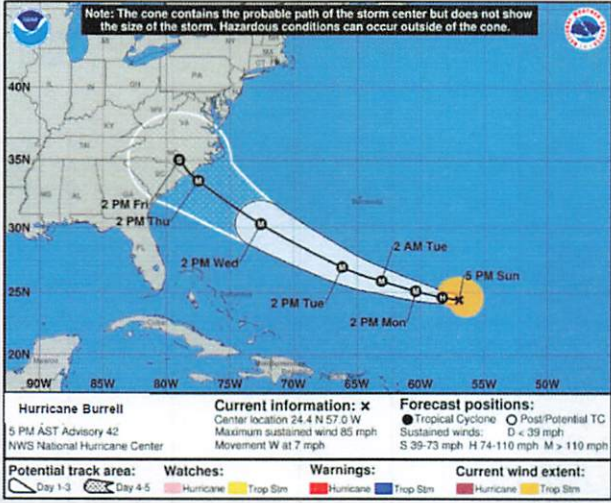
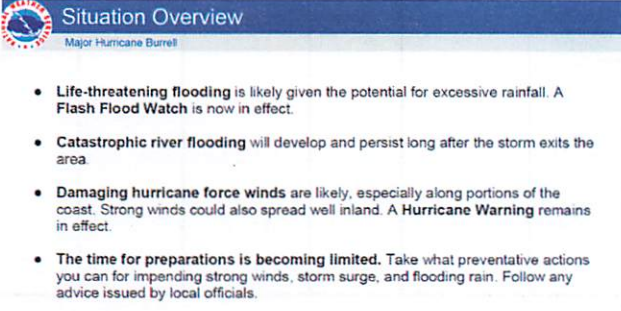
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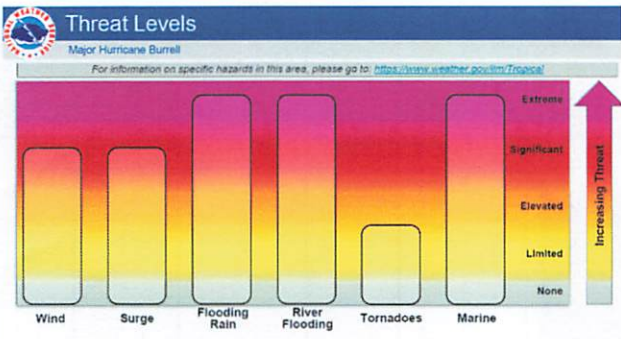
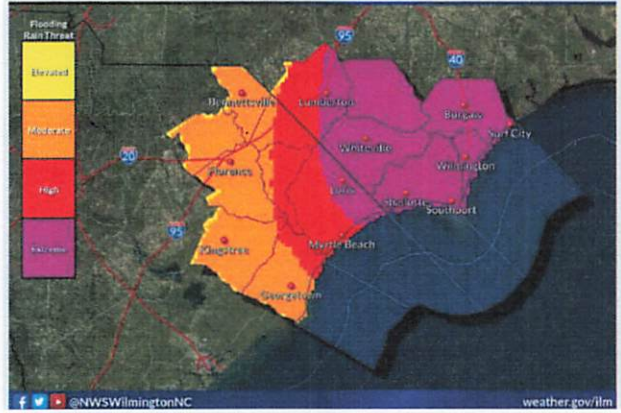
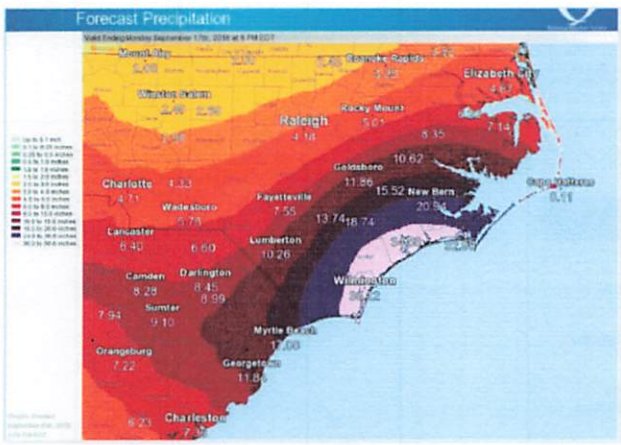
Graphics

Combined text and graphics

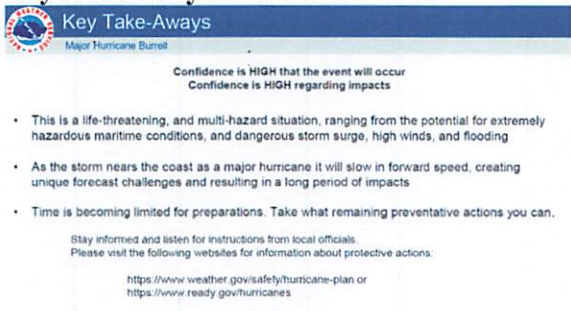
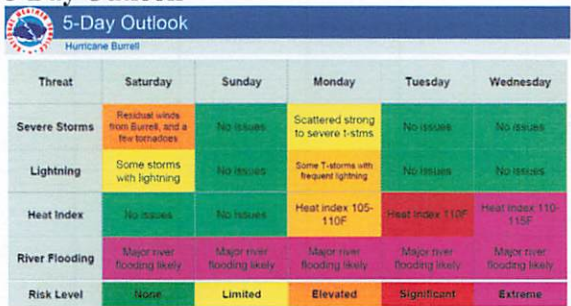
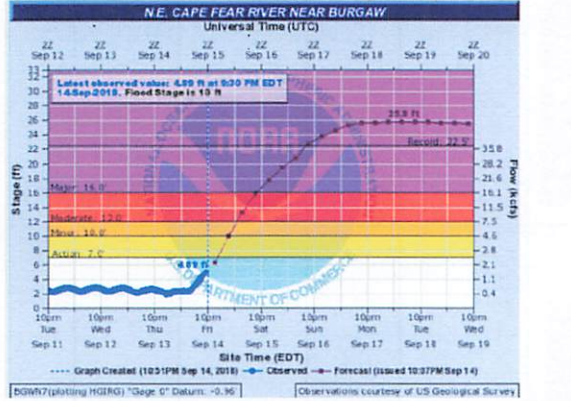

Please explain. _____

6. Please rate the weather products discussed today based on their usefulness to you in assessing your flood situation.

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<p>Excessive Rainfall Risk</p> <p>WPC Day 1 Excessive Rainfall Outlook (ERO) Valid 14Z Sat XXX XX XXXX thru 12Z Sun XXX XX XXXX</p> <p>Probability of excessive rainfall leading to rapid onset flooding.*</p> <p>Marginal Risk 5-10% Minor Risk 19-20% Moderate Risk 20-50% High Risk over 50%</p> <p>* Risk is ratio of 2 pm (6 am) maximum rainfall divided by mean rainfall.</p> <p>Issued: 1435Z Sat XXX XX XXXX Forecaster: ORAVEC NOAA/NWS/NCEP/WPC</p>					
<p>Flood Hazard Outlook</p> <p>7-Day Flood Hazard Outlook: Hurricane Burrell Includes Fresh, River, and Tidal Flood Hazards</p> <p>Issued: 09:43:2024 AM (local time) 09:23:2024 AM (GMT) 09:23:2024 PM (UTC)</p> <p>Flood Hazard Messages</p> <p>Caroline and Mid Atlantic Area southeast New England</p> <ul style="list-style-type: none"> • The increasingly common risk of sea level rise (SLR) in coastal areas will increase the risk of flooding and may contribute to the risk of coastal flooding in the Carolines and in southeast New England. • Coastal flooding risk is high in coastal areas, and may be higher in coastal areas in the Carolines and in southeast New England. • Increased SLR, which will increase the risk of flooding in coastal areas, may be higher in coastal areas in the Carolines and in southeast New England. <p>Potential Flooding Impacts</p> <ul style="list-style-type: none"> Evacuation Construction Limited Towing Days 1-3 Days 4-7 Days 8-7 <p>Official Forecast Points</p> <ul style="list-style-type: none"> River Flood Moderate Flood Minor Flood <p>Source: WPC/NWS/NCEP/WPC</p>					

7. What changes might you recommend for any of the products shown?

8. Which media would you use to find NWS information about the risk of flooding near you? Please circle all that apply:

Facebook

Twitter

Internet

Other: TV

9. Which digital platform are you most likely to use to access NWS resources? Circle one.

Smartphone

Tablet

Laptop

Desktop

Other: _____

10. Was anything in the session confusing? Yes

No

If Yes, please explain:

11. What improvements could be made in the format or content of this session?

12. Additional comments:

Thank you for participating!

Survey Questions - Post-Focus Group Session Survey

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995 unless the information collection has a currently valid OMB Control Number. The approved OMB Control Number for this information collection is 0690-0030. Without this approval, we could not conduct this post-focus group survey collection. Public reporting for this information collection is estimated to be approximately 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. All responses to this information collection are voluntary. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Nurture Nature Center at: 518 Northampton Street, Easton, PA 18042, Attn: Rachel Hogan Carr, Executive Director, rhogan@nurturenature.org.

1. Please rate your agreement with the following statements about the forum.

Please check ONE box for each statement.

	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
The information was clearly presented.		✓			
I felt comfortable voicing my opinion.		✓			
I know more about the National Weather Service (NWS) resources.		✓			
I feel I could use NWS resources to judge my risk in an extreme weather event.		✓			

2. What are the biggest barriers you face in using NWS flood forecast and warning products? Some examples to consider are lack of computer or phone, lack of internet access, language barriers, NWS products too difficult to understand, or other factors.

3. Our goal today was to gather feedback to improve NWS flood forecast and warning tools. Beyond the questions asked today, what else would be important to know about how you gather/would use NWS information about extreme weather risks and your intended actions?

4. After attending today's session, how likely are you to:

Please check ONE box for each statement.

	Very Likely	Somewhat Likely	Neither likely nor unlikely	Somewhat Unlikely	Unlikely
Create or revise plans to deal with extreme weather events using NWS products.	✓				
Share what I learned about NWS products today with others.	✓				
Seek NWS information about extreme weather risks.	✓				
Use NWS products and information in your decision-making	✓				

5. Do you prefer text-based or graphical/visual NWS products in trying to understand your level of risk from flooding? Circle one.

Text

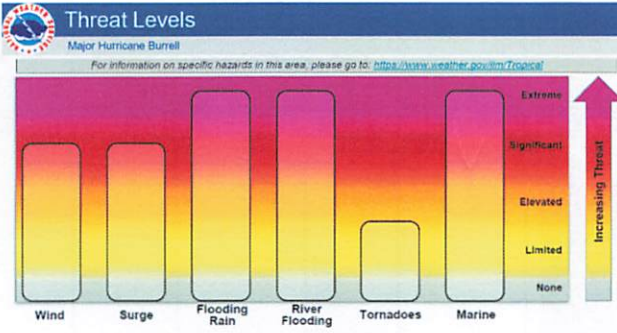
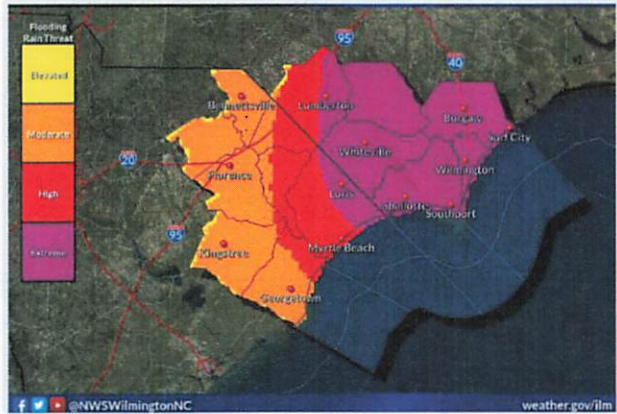
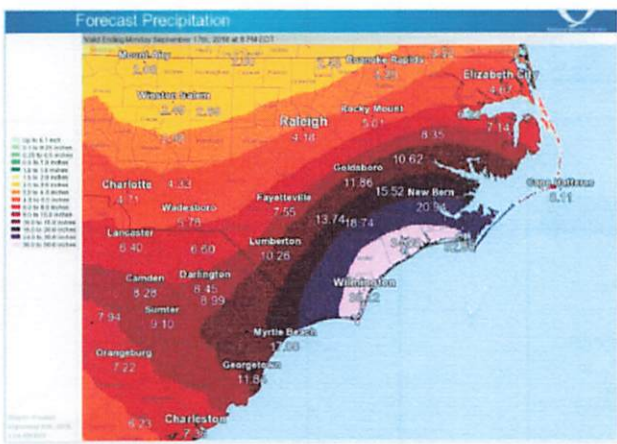
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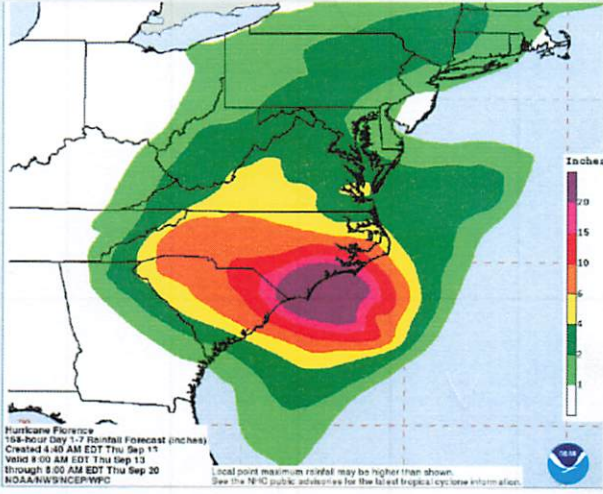

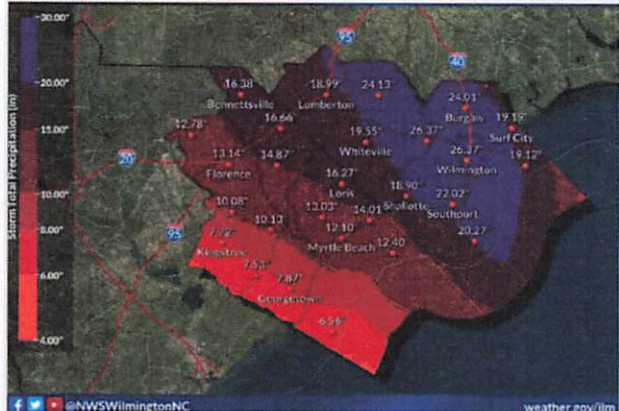
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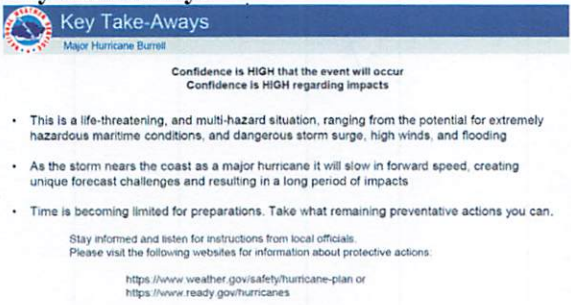
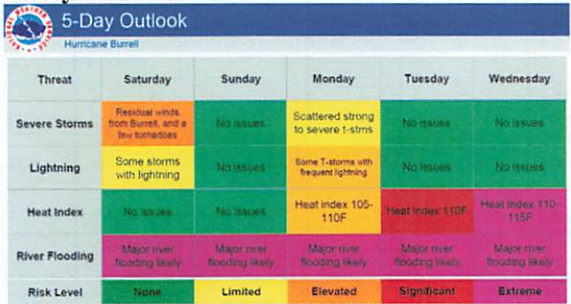
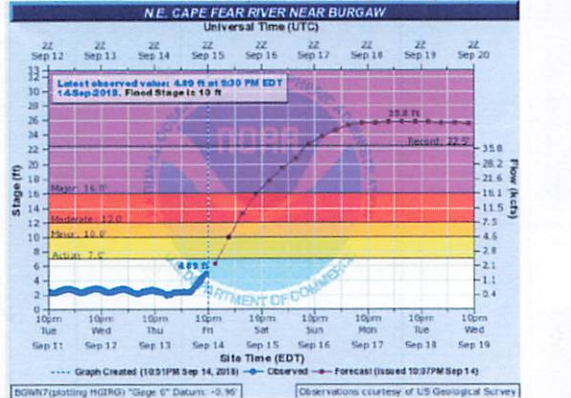
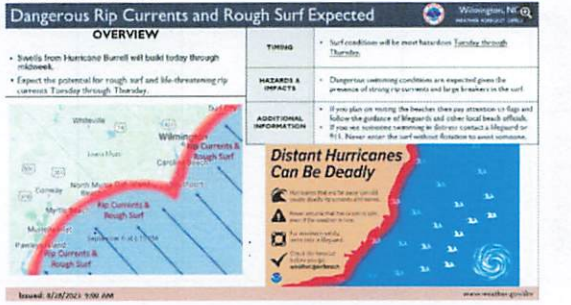
Please explain. _____

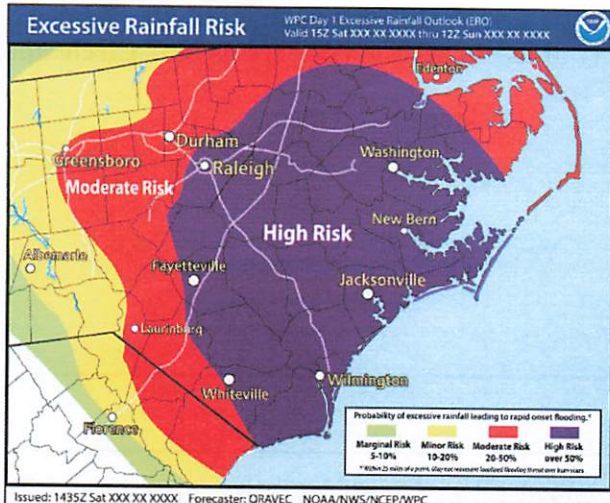
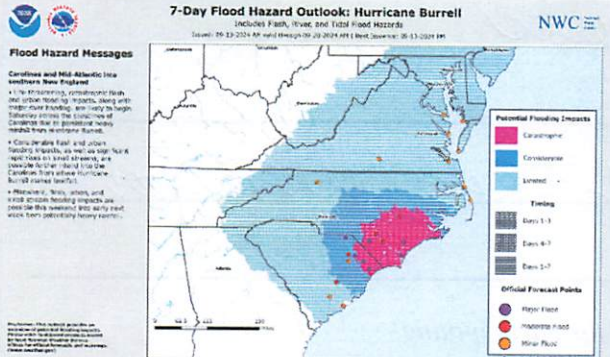
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<p>Hurricane Cone</p> <p>Hurricane Burrell 5 PM AST Advisory 42 NWS National Hurricane Center</p> <p>Current information: x Center location 24.4 N 57.0 W Maximum sustained wind 85 mph Movement W at 7 mph</p> <p>Forecast positions: ● Tropical Cyclone ○ Post/Potential TC Sustained winds: D < 39 mph S 39-73 mph H 74-110 mph M > 110 mph</p> <p>Potential track area: Day 1-3 Day 4-5 Watches: Hurricane Trop Stm Warnings: Hurricane Trop Stm Current wind extent: Hurricane Trop Stm</p>	✓																												
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<p>Situation Overview</p> <p>Situation Overview Major Hurricane Burrell</p> <ul style="list-style-type: none"> • Life-threatening flooding is likely given the potential for excessive rainfall. A Flash Flood Watch is now in effect. • Catastrophic river flooding will develop and persist long after the storm exits the area. • Damaging hurricane force winds are likely, especially along portions of the coast. Strong winds could also spread well inland. A Hurricane Warning remains in effect. • The time for preparations is becoming limited. Take what preventative actions you can for impending strong winds, storm surge, and flooding rain. Follow any advice issued by local officials. 	✓																												

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<p>Threat Levels</p> 			✓		
<p>Inland Flooding</p> 			✓		
<p>Forecast Precipitation</p> 	✓				

	Extremely useful	Very useful	Moderately useful	Slightly useful	Not at all useful
<p>Expected Storm Total Rainfall</p>  <p>Hurricane Florence 168-hour Day 1-7 (8am) Forecast (inches) Created 4:40 AM EDT Thu Sep 17 Valid 8:00 AM EDT Thu Sep 13 through 8:00 AM EDT Thu Sep 20 NOAA/NWS/NCEP/WWP</p> <p>Local point maximum rainfall may be higher than shown. See the NWS public advisories for the latest tropical cyclone information.</p>		✓			
<p>River Flooding Outlook</p> 		✓			
<p>Additional Rainfall</p>  <p>Storm total Precipitation (in)</p> <p>weather.gov/ilm</p>		✓			

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<h3>Key Take-Aways</h3>  <p>Confidence is HIGH that the event will occur Confidence is HIGH regarding impacts</p> <ul style="list-style-type: none"> This is a life-threatening, and multi-hazard situation, ranging from the potential for extremely hazardous maritime conditions, and dangerous storm surge, high winds, and flooding As the storm nears the coast as a major hurricane it will slow in forward speed, creating unique forecast challenges and resulting in a long period of impacts Time is becoming limited for preparations. Take what remaining preventative actions you can. <p>Stay informed and listen for instructions from local officials. Please visit the following websites for information about protective actions:</p> <p>https://www.weather.gov/safety/hurricane-plan https://www.ready.gov/hurricanes</p>		✓																																							
<h3>5-Day Outlook</h3>  <table border="1"> <thead> <tr> <th>Threat</th> <th>Saturday</th> <th>Sunday</th> <th>Monday</th> <th>Tuesday</th> <th>Wednesday</th> </tr> </thead> <tbody> <tr> <td>Severe Storms</td> <td>Residual winds from Burell, and a few hurricanes</td> <td>No issues</td> <td>Scattered strong to severe 1-stms</td> <td>No issues</td> <td>No issues</td> </tr> <tr> <td>Lightning</td> <td>Some storms with lightning</td> <td>No issues</td> <td>Some 1-stms with frequent lightning</td> <td>No issues</td> <td>No issues</td> </tr> <tr> <td>Heat Index</td> <td>No issues</td> <td>No issues</td> <td>Heat index 105-110F</td> <td>Heat index 110F</td> <td>Heat index 110-115F</td> </tr> <tr> <td>River Flooding</td> <td>Major river flooding likely</td> <td>Major river flooding likely</td> <td>Major river flooding likely</td> <td>Major river flooding likely</td> <td>Major river flooding likely</td> </tr> <tr> <td>Risk Level</td> <td>None</td> <td>Limited</td> <td>Elevated</td> <td>Significant</td> <td>Extreme</td> </tr> </tbody> </table>	Threat	Saturday	Sunday	Monday	Tuesday	Wednesday	Severe Storms	Residual winds from Burell, and a few hurricanes	No issues	Scattered strong to severe 1-stms	No issues	No issues	Lightning	Some storms with lightning	No issues	Some 1-stms with frequent lightning	No issues	No issues	Heat Index	No issues	No issues	Heat index 105-110F	Heat index 110F	Heat index 110-115F	River Flooding	Major river flooding likely	Major river flooding likely	Major river flooding likely	Major river flooding likely	Major river flooding likely	Risk Level	None	Limited	Elevated	Significant	Extreme	✓				
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<h3>Potential River Flooding</h3>  <p>NE CAPE FEAR RIVER NEAR BURGAW Universal Time (UTC)</p> <p>Stage (ft) vs. Flow (cfs) graph showing observed and forecast data from Sep 11 to Sep 20. Key values include a latest observed value of 6.90 ft at 9:00 PM EDT on Sep 14, 2018, and a forecast peak of 35.8 ft on Sep 18.</p>		✓																																							
<h3>Social media</h3>  <p>Dangerous Rip Currents and Rough Surf Expected</p> <p>Wilmington, NC</p> <p>OVERVIEW</p> <ul style="list-style-type: none"> Swells from Hurricane Burell will back today through midweek. Expect the potential for rough surf and life-threatening rip currents Tuesday through Thursday. <p>HAZARDS & IMPACTS</p> <ul style="list-style-type: none"> Dangerous swimming conditions are expected given the presence of strong rip currents and large breakers on the surf. <p>ADDITIONAL INFORMATION</p> <ul style="list-style-type: none"> If you plan on visiting the beaches then pay attention to flags and follow the guidance of lifeguards and other local beach officials. If you are concerned regarding rip currents contact a lifeguard or 911. Never enter the surf without lifeguards to assist you. <p>Distant Hurricanes Can Be Deadly</p> <p>Never get caught in the water. Stay on the beach. If you are caught in the water, stay afloat. Do not drink seawater. Do not attempt to swim back to shore. Do not attempt to walk back to shore. Do not attempt to run back to shore.</p>	✓																																								

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7. What changes might you recommend for any of the products shown?

8. Which media would you use to find NWS information about the risk of flooding near you? Please circle all that apply:

Facebook Twitter Internet Other: Internet

9. Which digital platform are you most likely to use to access NWS resources? Circle one.

Smartphone Tablet Laptop Desktop Other: _____

10. Was anything in the session confusing? Yes No

If Yes, please explain:

11. What improvements could be made in the format or content of this session?

improve some words

12. Additional comments: every thing was good

Thank you for participating!

Survey Questions - Post-Focus Group Session Survey

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Please check ONE box for each statement.

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Access, Language

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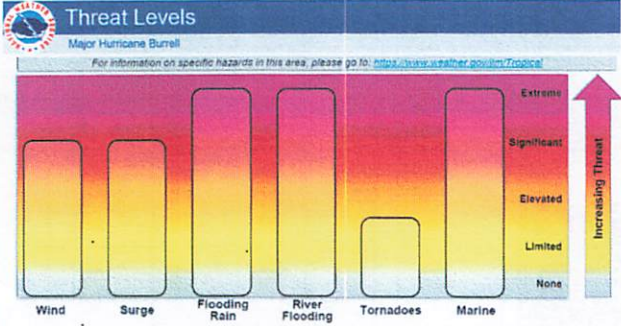
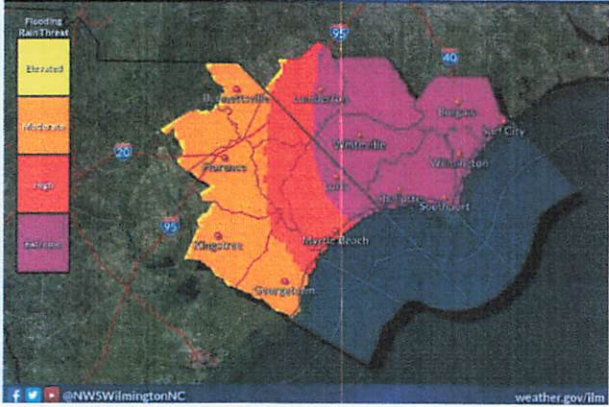
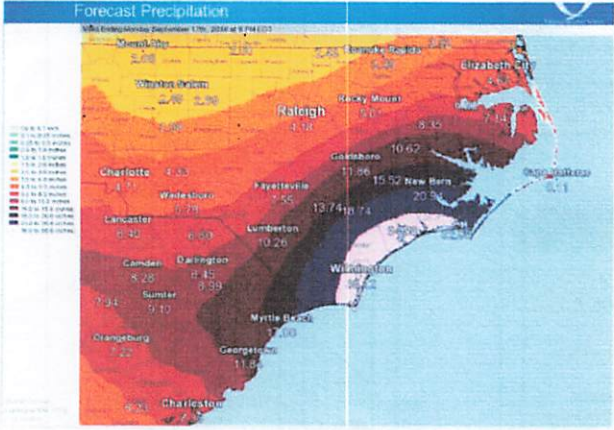
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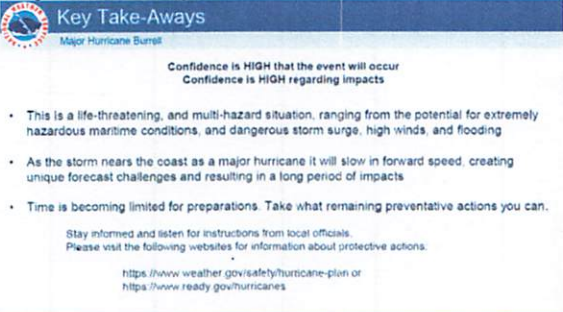
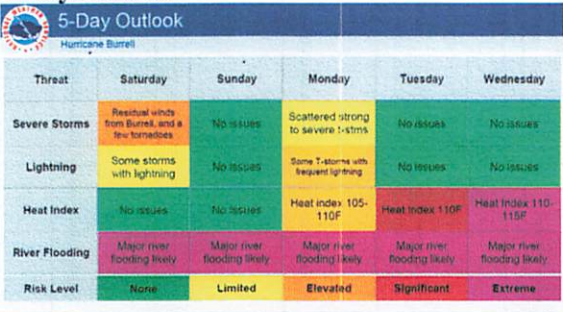
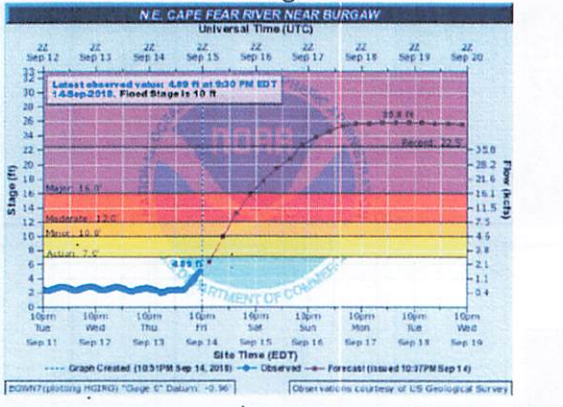

Please explain. Neither

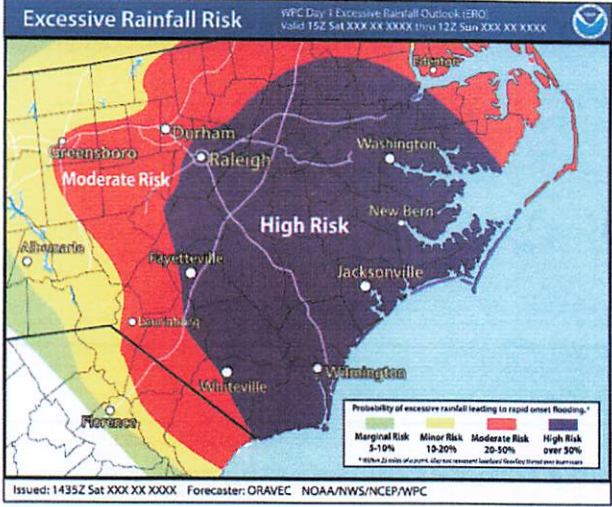
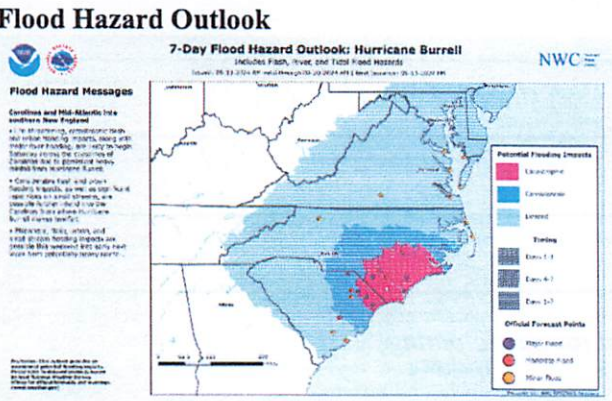
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	Extremely useful	Very useful	Moderately useful	Slightly useful	Not at all useful
<p>Threat Levels</p> 			✓		
<p>Inland Flooding</p> 		✓			
<p>Forecast Precipitation</p> 		✓			

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<p>Expected Storm Total Rainfall</p>	✓				
<p>River Flooding Outlook</p>		✓			
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<p>Flood Hazard Outlook</p> 		✓			

7. What changes might you recommend for any of the products shown?

Colors AND WORDING

8. Which media would you use to find NWS information about the risk of flooding near you? Please circle all that apply:

Facebook Twitter Internet Other: _____

9. Which digital platform are you most likely to use to access NWS resources? Circle one.

Smartphone Tablet Laptop Desktop Other: _____

10. Was anything in the session confusing? Yes No

If Yes, please explain:

11. What improvements could be made in the format or content of this session?

12. Additional comments:

Thank you for participating!

Survey Questions - Post-Focus Group Session Survey

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1. Please rate your agreement with the following statements about the forum.

Please check ONE box for each statement.

	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
The information was clearly presented.		✓			
I felt comfortable voicing my opinion.		✓			
I know more about the National Weather Service (NWS) resources.		✓			
I feel I could use NWS resources to judge my risk in an extreme weather event.		✓			

2. What are the biggest barriers you face in using NWS flood forecast and warning products? Some examples to consider are lack of computer or phone, lack of internet access, language barriers, NWS products too difficult to understand, or other factors.

Timing

3. Our goal today was to gather feedback to improve NWS flood forecast and warning tools. Beyond the questions asked today, what else would be important to know about how you gather/would use NWS information about extreme weather risks and your intended actions?

4. After attending today's session, how likely are you to:

Please check ONE box for each statement.

	Very Likely	Somewhat Likely	Neither likely nor unlikely	Somewhat Unlikely	Unlikely
Create or revise plans to deal with extreme weather events using NWS products.		✓			
Share what I learned about NWS products today with others.		✓			
Seek NWS information about extreme weather risks.		✓			
Use NWS products and information in your decision-making		✓			

5. Do you prefer text-based or graphical/visual NWS products in trying to understand your level of risk from flooding? Circle one.

Text

Graphics

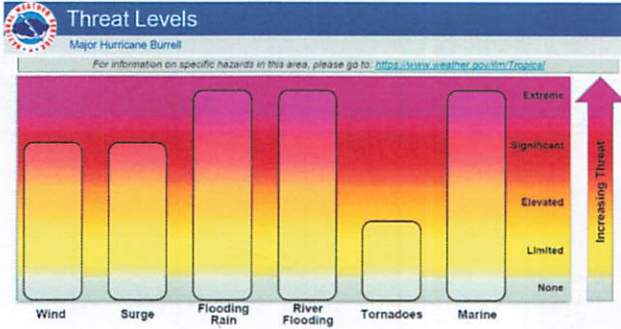
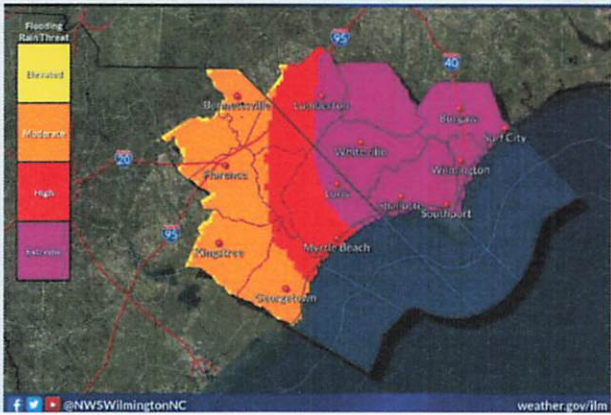
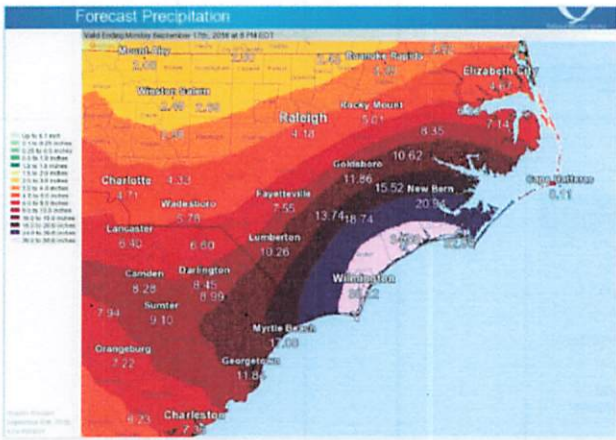
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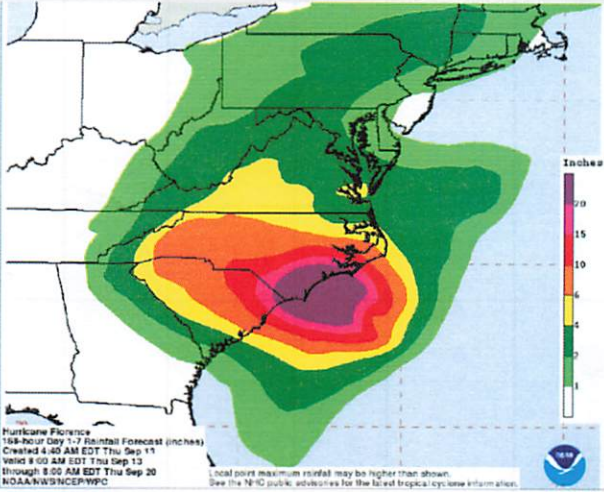
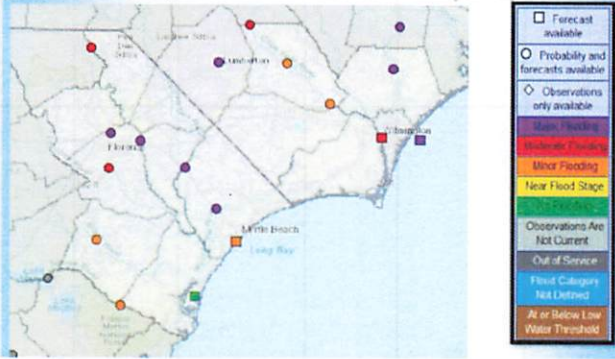
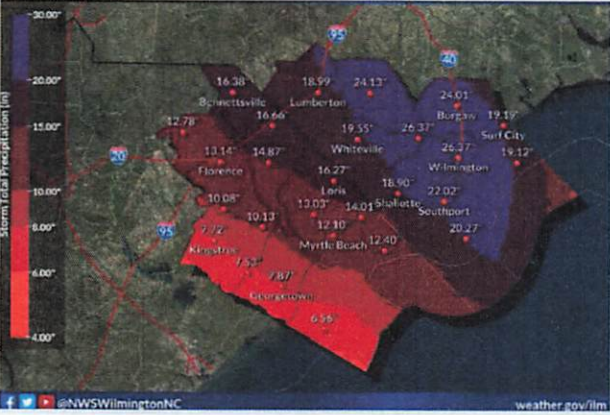
Please explain.

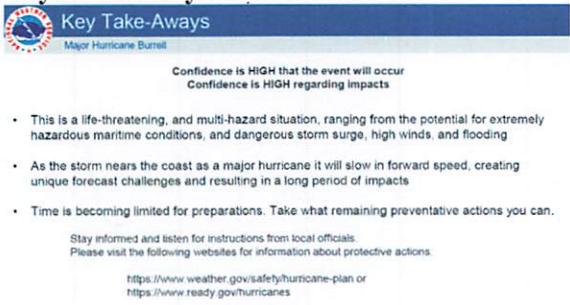
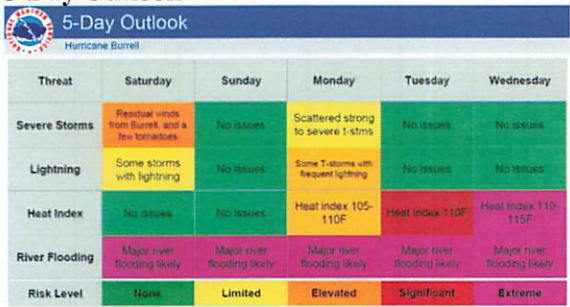
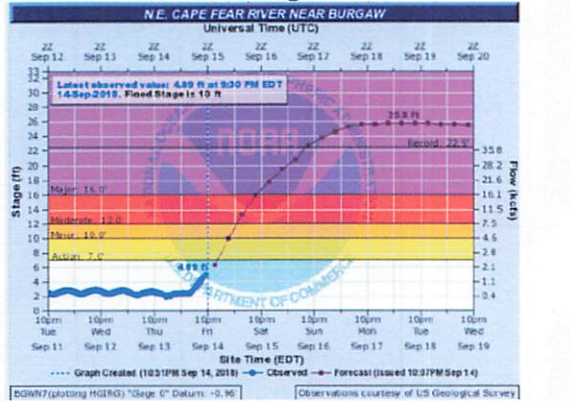
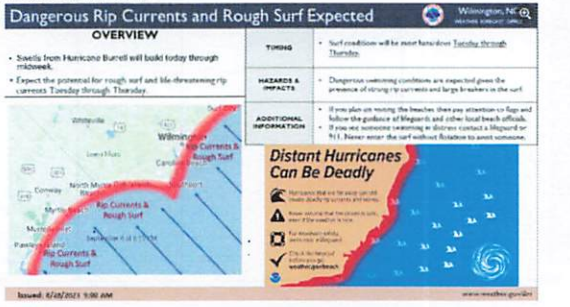
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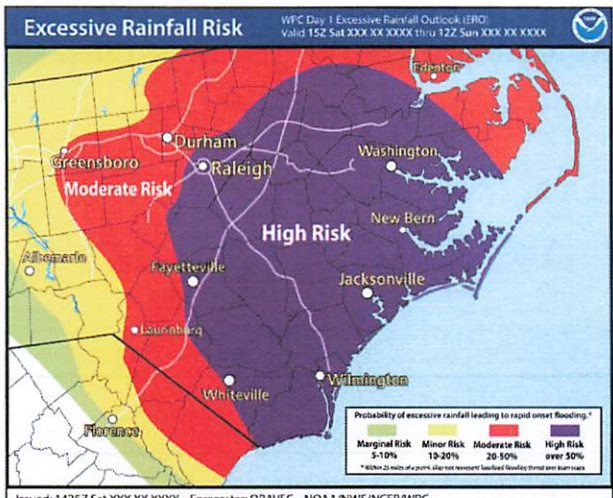
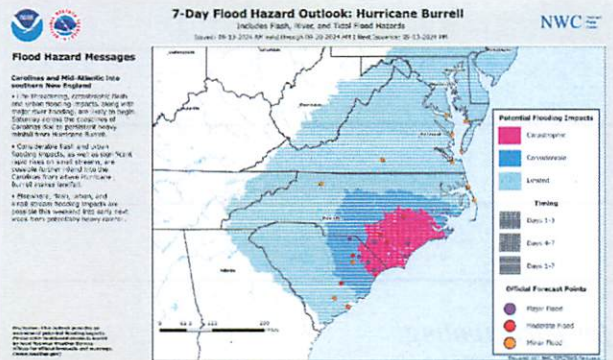
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<p>Forecast Precipitation</p> 					

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<p>Expected Storm Total Rainfall</p>  <p>Hurricane Florence 168-hour Day 1-7 Rainfall Forecast (inches) Created 4:40 AM EDT Thu Sep 11 Valid 4:00 AM EDT Thu Sep 13 through 8:00 AM EDT Thu Sep 20 NOAA/NWS/NCEP/WWPC</p> <p>Local point maximum rainfall may be higher than shown. See the NHC public advisories for the latest tropical cyclone information.</p>				✓	
<p>River Flooding Outlook</p>  <p>Legend: <input type="checkbox"/> Forecast available <input type="circle"/> Probability and forecasts available <input type="diamond"/> Observations only available Major Flooding Moderate Flooding Minor Flooding Near Flood Stage At or Below Low Water Threshold Observations Are Not Current Out of Service Flood Category Not Defined At or Below Low Water Threshold</p>				✓	
<p>Additional Rainfall</p>  <p>Storm Total Precipitation (in)</p> <p>@NWSWilmingtonNC weather.gov/film</p>				✓	

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<p>Social media</p>  <p>Dangerous Rip Currents and Rough Surf Expected</p> <p>Wilmington, NC</p> <p>OVERVIEW</p> <ul style="list-style-type: none"> Swells from Hurricane Burell will backi today through midweek. Expect the potential for rough surf and life-threatening rip currents Tuesday through Thursday. <p>TIMING</p> <ul style="list-style-type: none"> Surf conditions will be most hazardous Tuesday through Thursday. <p>HAZARDS & IMPACTS</p> <ul style="list-style-type: none"> Dangerous swimming conditions are expected given the presence of strong rip currents and large breakers on the surf. <p>ADDITIONAL INFORMATION</p> <ul style="list-style-type: none"> If you plan on visiting the beaches, then pay attention to flags and follow the guidance of lifeguards and other local beach officials. If you are swimming, swimming in deeper water is flagged for "H". Never enter the surf without lifeguards to assist someone. <p>Distant Hurricanes Can Be Deadly</p> <ul style="list-style-type: none"> Hurricanes that are far away can still threaten life by rip currents and waves. Be sure you are that you always swim near lifeguards in the water. For more safety information, visit www.weather.gov. This is the National Hurricane Center's website. <p>Issued: 8/29/2018 9:00 AM www.weather.gov</p>																																									

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<p>Excessive Rainfall Risk</p>  <p>WPC Day 1 Excessive Rainfall Outlook (ERO) Valid 15Z Sat XXX-XX-XXXX thru 12Z Sun XXX-XX-XXXX</p> <p>Issued: 1435Z Sat XXX-XX-XXXX Forecaster: ORAVEC NOAA/NWS/NCEP/WPC</p>					
<p>Flood Hazard Outlook</p>  <p>7-Day Flood Hazard Outlook: Hurricane Burrell Includes Flood, River, and Tidal Flood Hazards</p> <p>Issued: 09:53Z 2024-09-20 2024-09-21 00:00 UTC</p> <p>Flood Hazard Messages</p> <p>Carolina and Mid-Atlantic face southeastern New England as the strengthening, concentrated flood and/or heavy rain impacts, along with major river flooding, are likely to begin Saturday as the Carolina and Mid-Atlantic face major river flooding.</p> <p>Carolina face flood and/or heavy rain impacts, as well as river flood, as the low-level flow of the Carolina and Mid-Atlantic face, but all states benefit.</p> <p>Heavy rain, wind, and flood impacts likely to begin late this weekend and early next week from southeastern New England.</p>					

7. What changes might you recommend for any of the products shown?

OMB Control No. 0690-0030

Expiration Date: 07/31/2024

8. Which media would you use to find NWS information about the risk of flooding near you? Please circle all that apply:

Facebook

Twitter

Internet

Other: N/A

9. Which digital platform are you most likely to use to access NWS resources? Circle one.

Smartphone

Tablet

Laptop

Desktop

Other: ✓

10. Was anything in the session confusing? Yes No

If Yes, please explain:

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12. Additional comments:

Thank you for participating!

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Please check ONE box for each statement.

	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
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I felt comfortable voicing my opinion.		✓			
I know more about the National Weather Service (NWS) resources.		✓			
I feel I could use NWS resources to judge my risk in an extreme weather event.	✓				

2. What are the biggest barriers you face in using NWS flood forecast and warning products? Some examples to consider are lack of computer or phone, lack of internet access, language barriers, NWS products too difficult to understand, or other factors.

Access, having power
 timing

3. Our goal today was to gather feedback to improve NWS flood forecast and warning tools. Beyond the questions asked today, what else would be important to know about how you gather/would use NWS information about extreme weather risks and your intended actions?

Just fixing the flood gauge

4. After attending today's session, how likely are you to:

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	Very Likely	Somewhat Likely	Neither likely nor unlikely	Somewhat Unlikely	Unlikely
Create or revise plans to deal with extreme weather events using NWS products.		✓			
Share what I learned about NWS products today with others.		✓			
Seek NWS information about extreme weather risks.		✓			
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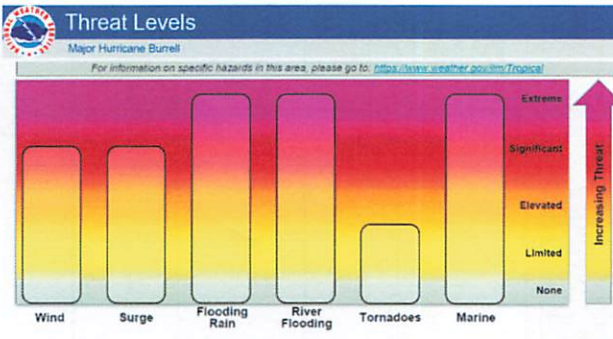
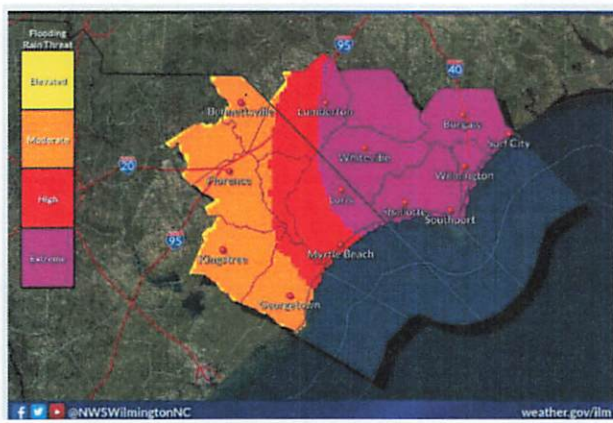
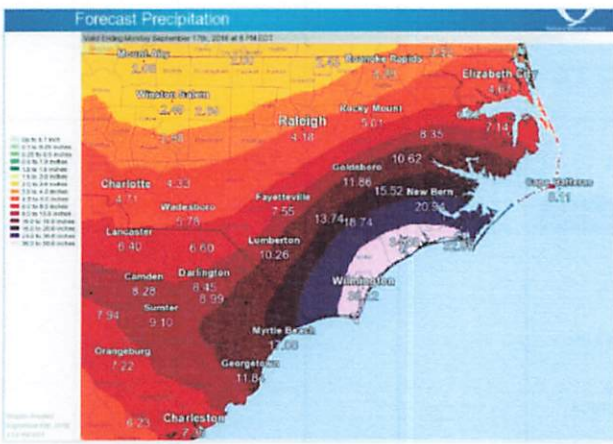
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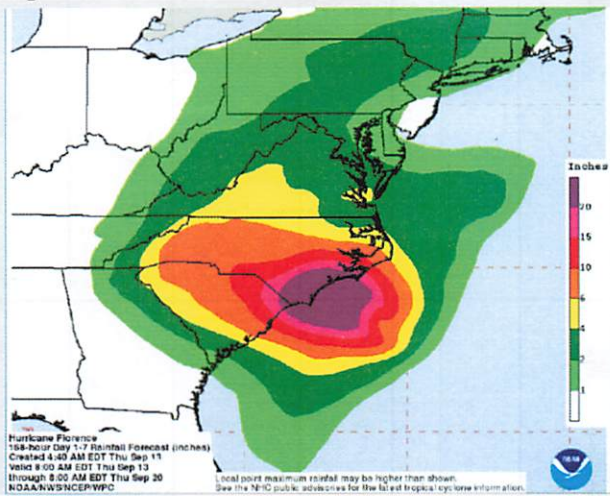

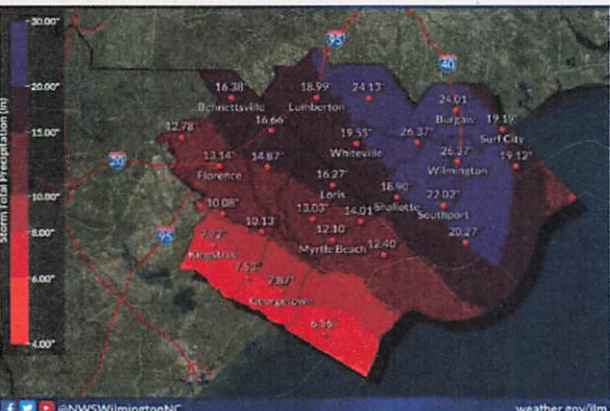
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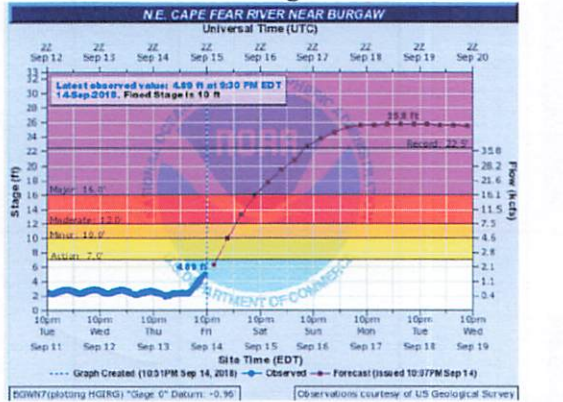
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<p>Hurricane Cone</p> <p>Hurricane Burrell 5 PM AST Advisory 42 NWS National Hurricane Center</p> <p>Current information: x Center location 24.4 N 57.0 W Maximum sustained wind 85 mph Movement W at 7 mph</p> <p>Forecast positions: Tropical Cyclone (D) < 39 mph Sustained winds: S 39-73 mph, H 74-110 mph, M > 110 mph</p> <p>Potential track area: Day 1-3, Day 4-5 Watches: Hurricane, Trop Strm Warnings: Hurricane, Trop Strm Current wind extent: Hurricane, Trop Strm</p>			✓																										
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<p>Inland Flooding</p> 		✓			
<p>Forecast Precipitation</p> 		✓			

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<p>Expected Storm Total Rainfall</p>  <p>Hurricane Florence 24-hour Day 1-7 Rainfall Forecast (inches) Created 4:40 AM EDT Thu Sep 13 Valid 8:00 AM EDT Thu Sep 13 through 8:00 AM EDT Thu Sep 20 NOAA/NWS/NCEP/WWP</p> <p>Local point maximum rainfall may be higher than shown. See the NHC public advisories for the latest tropical cyclone information.</p>	✓				
<p>River Flooding Outlook</p>  <p>Legend: <input type="checkbox"/> Forecast available <input type="checkbox"/> Probability and forecasts available <input type="checkbox"/> Observations only available <input type="checkbox"/> Minor Flooding <input type="checkbox"/> Minor Flooding <input type="checkbox"/> Minor Flooding <input type="checkbox"/> New Flood Stage <input type="checkbox"/> Observations Are Not Current <input type="checkbox"/> Out of Service <input type="checkbox"/> Flood Category Not Defined <input type="checkbox"/> At or Below Low Water Threshold</p>		✓			
<p>Additional Rainfall</p>  <p>Storm total precipitation (in)</p> <p>Locations and rainfall amounts: Bennettsville: 16.31 Lumberton: 18.99 Burgaw: 24.01 Florence: 12.72 Whiteville: 13.14 Lark: 16.66 Lenoir: 19.35 Myrtle Beach: 10.05 Myrtle Beach: 10.13 Myrtle Beach: 12.30 Myrtle Beach: 12.40 Myrtle Beach: 7.87 Georgetown: 6.55 Southport: 20.27 Southport: 12.30 Southport: 14.01 Southport: 16.27 Southport: 18.90 Southport: 22.02 Southport: 26.37 Southport: 26.27 Surf City: 19.12 Surf City: 19.12</p> <p>© NWSWilmingtonNC weather.zov/ilm</p>				✓	

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<p>Key Take-Aways</p>  <p>Confidence is HIGH that the event will occur Confidence is HIGH regarding impacts</p> <ul style="list-style-type: none"> This is a life-threatening, and multi-hazard situation, ranging from the potential for extremely hazardous maritime conditions, and dangerous storm surge, high winds, and flooding As the storm nears the coast as a major hurricane it will slow in forward speed, creating unique forecast challenges and resulting in a long period of impacts Time is becoming limited for preparations. Take what remaining preventative actions you can. <p>Stay informed and listen for instructions from local officials. Please visit the following websites for information about protective actions: https://www.weather.gov/safety/hurricane-plan or https://www.ready.gov/hurricanes</p>				✓																																					
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7. What changes might you recommend for any of the products shown?

Change colors and wording

8. Which media would you use to find NWS information about the risk of flooding near you? Please circle all that apply:

Facebook

Twitter

Internet

Other: _____

9. Which digital platform are you most likely to use to access NWS resources? Circle one.

Smartphone

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Other: _____

10. Was anything in the session confusing? Yes No

If Yes, please explain:

Good to discuss possible change

11. What improvements could be made in the format or content of this session?

change wording

12. Additional comments:

Thank you for participating!

Survey Questions - Post-Focus Group Session Survey

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995 unless the information collection has a currently valid OMB Control Number. The approved OMB Control Number for this information collection is 0690-0030. Without this approval, we could not conduct this post-focus group survey collection. Public reporting for this information collection is estimated to be approximately 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. All responses to this information collection are voluntary. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Nurture Nature Center at: 518 Northampton Street, Easton, PA 18042, Attn: Rachel Hogan Carr, Executive Director, rhogan@nuturenature.org.

1. Please rate your agreement with the following statements about the forum.

Please check ONE box for each statement.

	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
The information was clearly presented.	✓				
I felt comfortable voicing my opinion.	✓				
I know more about the National Weather Service (NWS) resources.	✓				
I feel I could use NWS resources to judge my risk in an extreme weather event.	✓				

2. What are the biggest barriers you face in using NWS flood forecast and warning products? Some examples to consider are lack of computer or phone, lack of internet access, language barriers, NWS products too difficult to understand, or other factors.

*Perfectly understandable
 just needs a few changes*

3. Our goal today was to gather feedback to improve NWS flood forecast and warning tools. Beyond the questions asked today, what else would be important to know about how you gather/would use NWS information about extreme weather risks and your intended actions?

more warnings

4. After attending today's session, how likely are you to:

Please check ONE box for each statement.

	Very Likely	Somewhat Likely	Neither likely nor unlikely	Somewhat Unlikely	Unlikely
Create or revise plans to deal with extreme weather events using NWS products.	✓				
Share what I learned about NWS products today with others.	✓				
Seek NWS information about extreme weather risks.	✓				
Use NWS products and information in your decision-making	✓				

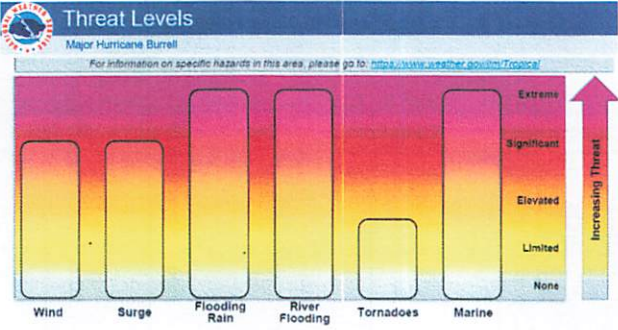
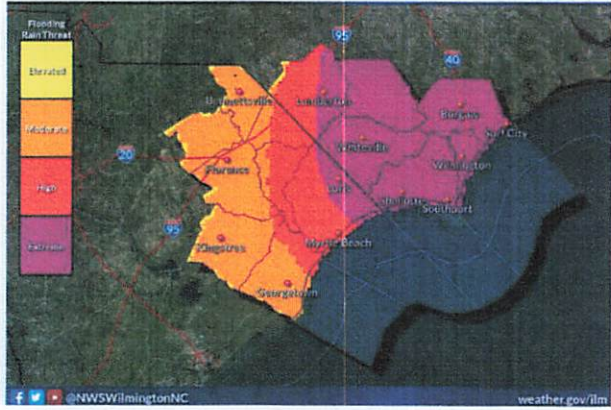
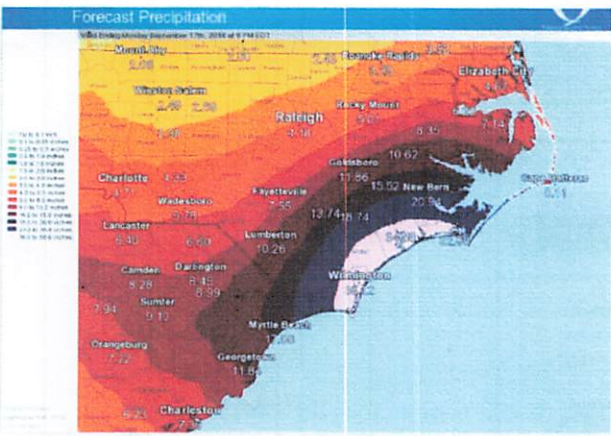
5. Do you prefer text-based or graphical/visual NWS products in trying to understand your level of risk from flooding? Circle one.

Text Graphics Combined text and graphics



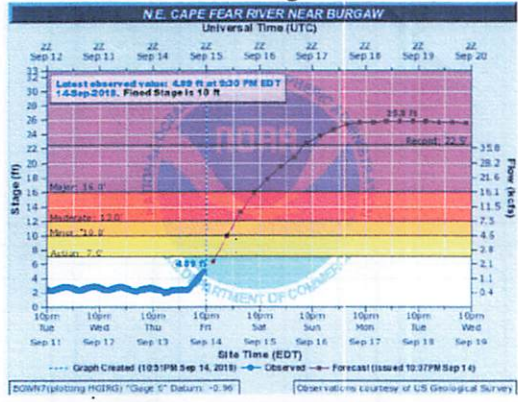

Please explain. more understandability with visual

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<p>River Flooding Outlook</p>	✓				
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7. What changes might you recommend for any of the products shown?

make a little more simple for other's normal everyday people to understand

8. Which media would you use to find NWS information about the risk of flooding near you? Please circle all that apply:

Facebook Twitter Internet Other: _____

9. Which digital platform are you most likely to use to access NWS resources? Circle one.

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If Yes, please explain:

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make more understandable
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Thank you for participating!

Survey Questions - Post-Focus Group Session Survey

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995 unless the information collection has a currently valid OMB Control Number. The approved OMB Control Number for this information collection is 0690-0030. Without this approval, we could not conduct this post-focus group survey collection. Public reporting for this information collection is estimated to be approximately 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. All responses to this information collection are voluntary. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Nurture Nature Center at: 518 Northampton Street, Easton, PA 18042, Attn: Rachel Hogan Carr, Executive Director, rhogan@nurturenature.org.

1. Please rate your agreement with the following statements about the forum.

Please check ONE box for each statement.

	Strongly Agree	Agree	Neither Agree nor Disagree	Disagree	Strongly Disagree
The information was clearly presented.	✓				
I felt comfortable voicing my opinion.	✓				
I know more about the National Weather Service (NWS) resources.	✓				
I feel I could use NWS resources to judge my risk in an extreme weather event.	✓				

2. What are the biggest barriers you face in using NWS flood forecast and warning products? Some examples to consider are lack of computer or phone, lack of internet access, language barriers, NWS products too difficult to understand, or other factors.

Limited Sources

3. Our goal today was to gather feedback to improve NWS flood forecast and warning tools. Beyond the questions asked today, what else would be important to know about how you gather/would use NWS information about extreme weather risks and your intended actions?

NA

4. After attending today's session, how likely are you to:

Please check ONE box for each statement.

	Very Likely	Somewhat Likely	Neither likely nor unlikely	Somewhat Unlikely	Unlikely
Create or revise plans to deal with extreme weather events using NWS products.	✓				
Share what I learned about NWS products today with others.	✓				
Seek NWS information about extreme weather risks.	✓				
Use NWS products and information in your decision-making	✓				

5. Do you prefer text-based or graphical/visual NWS products in trying to understand your level of risk from flooding? Circle one.

Text

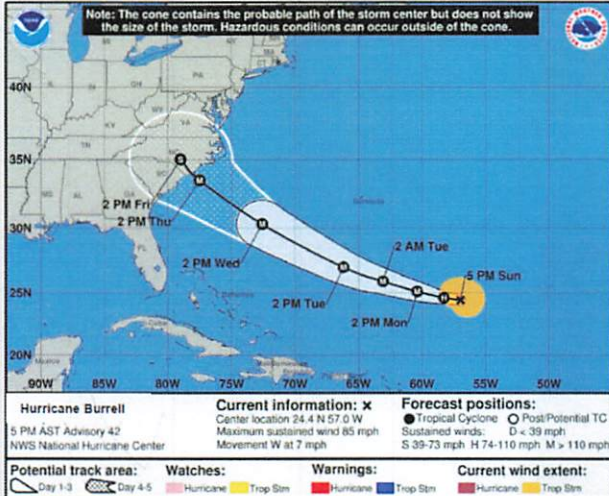
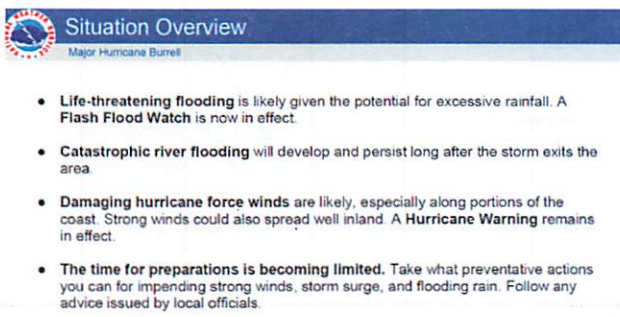
Graphics

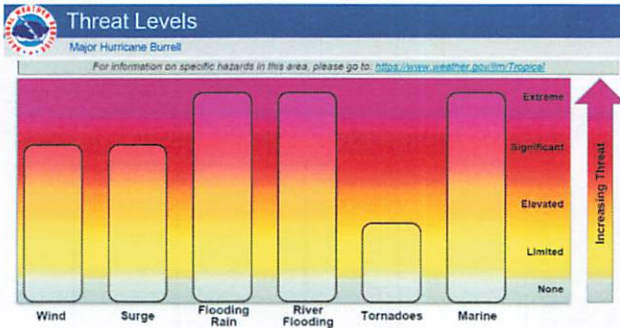
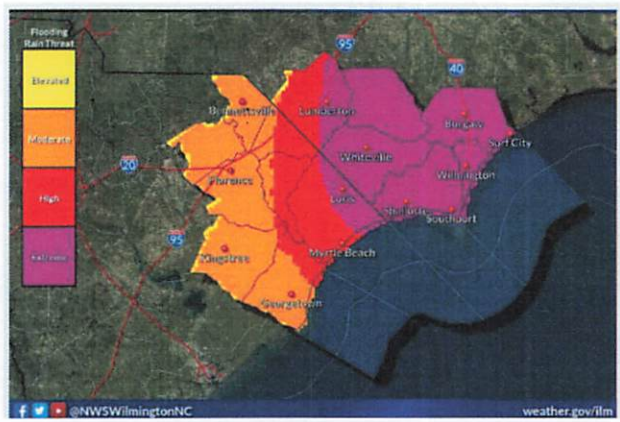
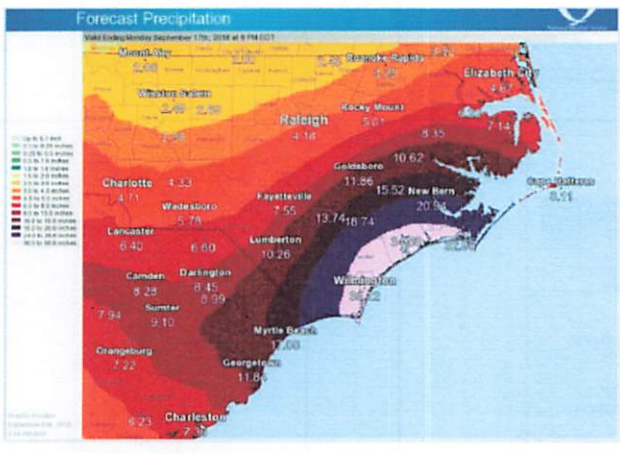
Combined text and graphics

Please explain.

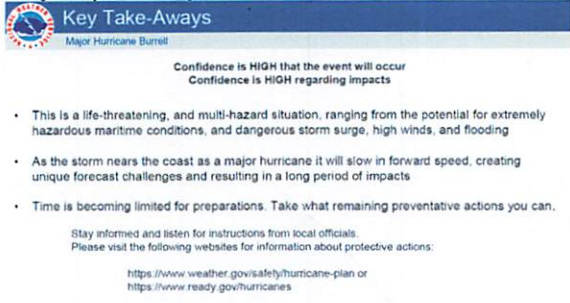
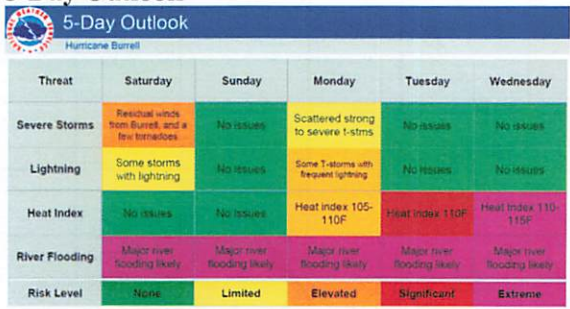
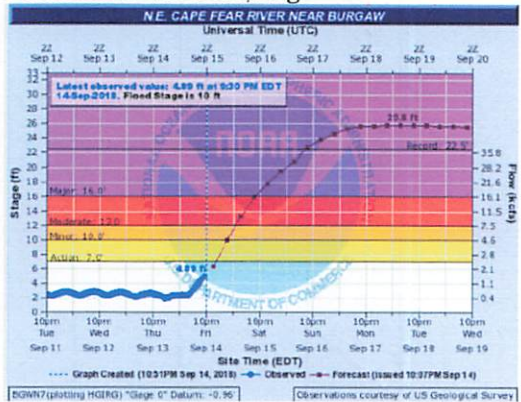

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6. Please rate the weather products discussed today based on their usefulness to you in assessing your flood situation.

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Threat Levels 					✓
Inland Flooding 				✓	
Forecast Precipitation 			✓		

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<p>Expected Storm Total Rainfall</p>		✓			
<p>River Flooding Outlook</p>		✓			
<p>Additional Rainfall</p>		✓			

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<p>Key Take-Aways</p>  <p>Confidence is HIGH that the event will occur Confidence is HIGH regarding impacts</p> <ul style="list-style-type: none"> This is a life-threatening, and multi-hazard situation, ranging from the potential for extremely hazardous maritime conditions, and dangerous storm surge, high winds, and flooding As the storm nears the coast as a major hurricane it will slow in forward speed, creating unique forecast challenges and resulting in a long period of impacts Time is becoming limited for preparations. Take what remaining preventative actions you can. <p>Stay informed and listen for instructions from local officials. Please visit the following websites for information about protective actions: https://www.weather.gov/safety/hurricane-plan or https://www.ready.gov/hurricanes</p>			✓																																						
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<p>Social media</p> <p>Dangerous Rip Currents and Rough Surf Expected</p>  <p>Wilmington, NC</p> <p>OVERVIEW</p> <ul style="list-style-type: none"> Swells from Hurricane Burrell will build today through midweek. Expect the potential for rough surf and life-threatening rip currents Tuesday through Thursday. <p>HAZARDS & IMPACTS</p> <ul style="list-style-type: none"> Dangerous swimming conditions are expected given the presence of strong rip currents and large breakers in the surf. <p>ADDITIONAL INFORMATION</p> <ul style="list-style-type: none"> If you plan on visiting the beaches, please pay attention to flags and follow the guidance of lifeguards and other local beach officials. If you are concerned regarding or discover a child is missing, call 911. Never enter the surf without lifeguards to assist someone. <p>Distant Hurricanes Can Be Deadly</p> <ul style="list-style-type: none"> Hurricanes that are well out at sea can still cause deadly rip currents and waves. Never swim or surf when a hurricane is in the area. Use caution when walking on a beach. Check for rip currents and rough surf. Check for rip currents and rough surf. <p>Issued: 8/16/2018 1:00 AM</p>			✓																																						

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<p>Excessive Rainfall Risk</p> <p>WPC Day 1 Excessive Rainfall Outlook (ERO) Valid 15Z Sat XXX XX XXXX thru 12Z Sun XXX XX XXXX</p> <p>Issued: 1435Z Sat XXX XX XXXX Forecaster: ORAVEC NOAA/NWS/NCEP/WPC</p>					
<p>Flood Hazard Outlook</p> <p>7-Day Flood Hazard Outlook: Hurricane Burrell Includes Flood, River, and Tidal Flood Hazards Valid: 00:00 UTC 2024 Sat 09/29/2024 thru 00:00 UTC 2024 Sun 10/01/2024</p> <p>Flood Hazard Messages</p> <p>Caroline and Mid-Atlantic into southeast have flooded</p> <ul style="list-style-type: none"> • In the southeastern, southeastern North and central "flood" impacts, along with major river flooding, are likely to reach Subways across the coastline of Charlotte due to potential heavy rainfall from Hurricane Burrell. • Catastrophic and other flooding impacts, as well as high risk major river and flood impacts, are down the US East coast from the Carolina coast and into Florida Bay and Tampa Bay. • Hazardous debris, along with flood impacts flooding impacts, are cited in the outlook into early next week from secondary heavy rain. <p>Source: NWS, NWS/NOAA/NOAA</p>					

7. What changes might you recommend for any of the products shown?

Better wording of ~~the~~ text box

8. Which media would you use to find NWS information about the risk of flooding near you? Please circle all that apply:

Facebook

Twitter

Internet

Other: _____

9. Which digital platform are you most likely to use to access NWS resources? Circle one.

Smartphone

Tablet

Laptop

Desktop

Other: _____

10. Was anything in the session confusing? Yes

No

If Yes, please explain:

11. What improvements could be made in the format or content of this session?

NA

12. Additional comments:

Thank you for participating!

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Lack of adequate internet

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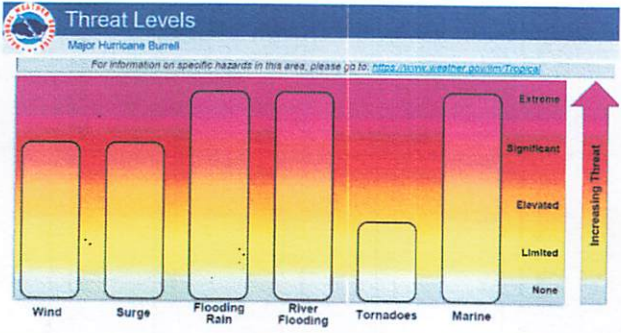
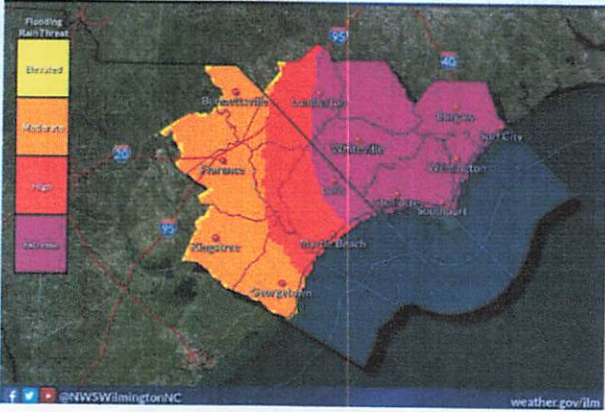
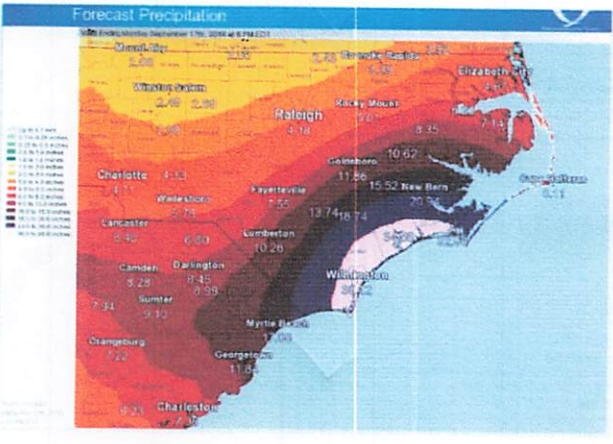
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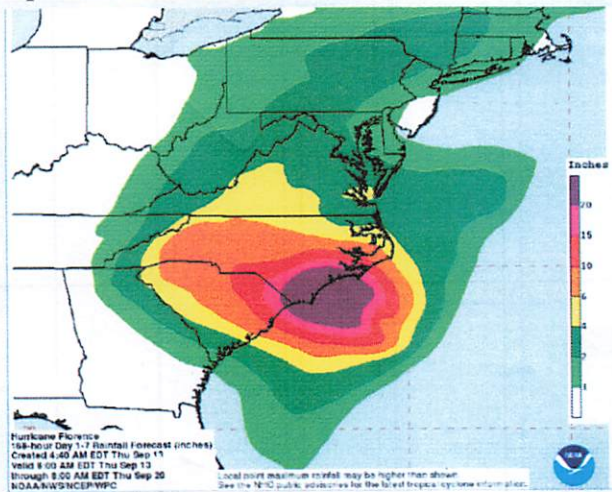


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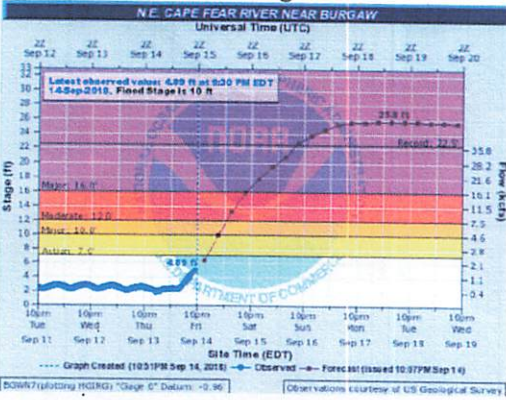
Please explain. Sometimes an explanation makes the graphics clearer

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<p>Inland Flooding</p> 		✓			
<p>Forecast Precipitation</p> 		✓			

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<p>Expected Storm Total Rainfall</p>  <p>Hurricane Florence 24-hour Day 1-7 Rainfall Forecast (inches) Created 4:40 AM EDT Thu Sep 13 Valid 8:00 AM EDT Thu Sep 13 through 8:00 AM EDT Thu Sep 20 NOAA/NWS/NCEP/WPC</p> <p>Local point maximum rainfall may be higher than shown. See the NWS public advisories for the latest tropical cyclone information.</p>	✓				
<p>River Flooding Outlook</p>  <p>Legend: □ Forecast available ○ Probability and forecasts available ○ Observations only available Moderate to Extreme River Flooding Near Flood Stage Observations Are Not Current Out of Service Flood Category Not Defined At or Below Low Water Threshold</p>			✓		
<p>Additional Rainfall</p>  <p>Storm Total Precipitation (in)</p> <p>24.01 23.37 22.07 20.27 19.49 18.99 18.77 18.55 16.66 16.27 16.01 14.87 14.81 13.95 13.90 13.10 12.80 12.02 11.32 10.68 10.32 10.08 9.92 8.37</p> <p>©NWSWilmingtonNC weather.gov/film</p>	✓				

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<p>Key Take-Aways</p>  <p>Key Take-Aways Major Hurricane Burell</p> <p>Confidence is HIGH that the event will occur Confidence is HIGH regarding impacts</p> <ul style="list-style-type: none"> This is a life-threatening, and multi-hazard situation, ranging from the potential for extremely hazardous maritime conditions, and dangerous storm surge, high winds, and flooding As the storm nears the coast as a major hurricane it will slow in forward speed, creating unique forecast challenges and resulting in a long period of impacts Time is becoming limited for preparations. Take what remaining preventative actions you can. <p>Stay informed and listen for instructions from local officials. Please visit the following websites for information about protective actions: https://www.weather.gov/safety/hurricane-plan or https://www.ready.gov/hurricanes</p>			✓																																						
<p>5-Day Outlook</p>  <p>5-Day Outlook Hurricane Burell</p> <table border="1"> <thead> <tr> <th>Threat</th> <th>Saturday</th> <th>Sunday</th> <th>Monday</th> <th>Tuesday</th> <th>Wednesday</th> </tr> </thead> <tbody> <tr> <td>Severe Storms</td> <td>Residual winds from Burell, and a few tornadoes</td> <td>No issues</td> <td>Scattered strong to severe 1-3 hrs</td> <td>No issues</td> <td>No issues</td> </tr> <tr> <td>Lightning</td> <td>Some storms with lightning</td> <td>No issues</td> <td>Some T-storms with frequent lightning</td> <td>No issues</td> <td>No issues</td> </tr> <tr> <td>Heat Index</td> <td>No issues</td> <td>No issues</td> <td>Heat index 105-110F</td> <td>Heat index 110F</td> <td>Heat index 110-115F</td> </tr> <tr> <td>River Flooding</td> <td>Major river flooding likely</td> <td>Major river flooding likely</td> <td>Major river flooding likely</td> <td>Major river flooding likely</td> <td>Major river flooding likely</td> </tr> <tr> <td>Risk Level</td> <td>None</td> <td>Limited</td> <td>Elevated</td> <td>Significant</td> <td>Extreme</td> </tr> </tbody> </table>	Threat	Saturday	Sunday	Monday	Tuesday	Wednesday	Severe Storms	Residual winds from Burell, and a few tornadoes	No issues	Scattered strong to severe 1-3 hrs	No issues	No issues	Lightning	Some storms with lightning	No issues	Some T-storms with frequent lightning	No issues	No issues	Heat Index	No issues	No issues	Heat index 105-110F	Heat index 110F	Heat index 110-115F	River Flooding	Major river flooding likely	Major river flooding likely	Major river flooding likely	Major river flooding likely	Major river flooding likely	Risk Level	None	Limited	Elevated	Significant	Extreme			✓		
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<p>Potential River Flooding</p>  <p>N.E. CAPE FEAR RIVER NEAR BURGAW Universal Time (UTC)</p> <p>Latest observed value: 4.99 ft at 8:00 PM EDT 14 Sep 2016. Flood Stage ft 10 ft</p> <p>Forecast: 22.0 ft</p> <p>Major: 14.0 ft Moderate: 12.0 ft Minor: 10.0 ft Action: 7.0 ft</p> <p>Graph Created 10:31 PM Sep 14, 2016 Observed - Forecast (Issued 10:37 PM Sep 14)</p>			✓																																						
<p>Social media</p> <p>Dangerous Rip Currents and Rough Surf Expected</p> <p>OVERVIEW</p> <ul style="list-style-type: none"> Swells from Hurricane Burell will build today through midnight. Expect the potential for rough surf and life-threatening rip currents Tuesday through Thursday. <p>HAZARDS & IMPACTS</p> <ul style="list-style-type: none"> Dangerous swimming conditions are expected given the presence of strong rip currents and large waves in the surf. <p>ADDITIONAL INFORMATION</p> <ul style="list-style-type: none"> If you plan on visiting the beaches there are restrictions on flags and follow the guidance of lifeguards and other local beach officials. If you are responsible for a child or pet, please contact a lifeguard for help. Please never let your children or pets go near the ocean. <p>Distant Hurricanes Can Be Deadly</p> <ul style="list-style-type: none"> Remember to always wear your seat belt. Never drink and drive. Check for updates on the weather. Stay informed. <p>Issued: 8/28/2016 10:00 AM</p>			✓																																						

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<p>Excessive Rainfall Risk</p> <p>Issued: 1435Z Sat XXX XX XXXX Forecaster: ORAVEC NOAA/NWS/NCEP/WPC</p>					
<p>Flood Hazard Outlook</p> <p>7-Day Flood Hazard Outlook: Hurricane Burrell <small>(Includes Fresh, Tidal, and Local Flood Hazards)</small></p> <p>Includes Flood Hazard Messages, Coastal and Inland Flooding, and Potential Flooding Zones.</p>					

7. What changes might you recommend for any of the products shown?

8. Which media would you use to find NWS information about the risk of flooding near you? Please circle all that apply:

Facebook Twitter Internet Other: _____

9. Which digital platform are you most likely to use to access NWS resources? Circle one.

Smartphone Tablet Laptop Desktop Other: _____

10. Was anything in the session confusing? Yes No

If Yes, please explain:

11. What improvements could be made in the format or content of this session?

none Everything was very useful

12. Additional comments: *none*

Thank you for participating!